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OM protein - protein search, using sw model

Run on: August 25, 2004, 12:58:44 ; Search time 128 Seconds
(without alignments)
1305.152 Million cell updates/sec

Title: US-09-530-233-2

Perfect score: 2851

Sequence: 1 MKPTSGPEEARQPSDIRVF.....CAVTKLSASHRTCLVLTQL 531

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1297172 seqs, 314612898 residues

Total number of hits satisfying chosen parameters: 1297172

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
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- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2851	100.0	531	15	US-10-258-073-4
2	2833	99.4	531	14	US-10-345-680-56
3	2833	99.4	531	15	US-10-366-288-44
4	2706	94.9	549	9	US-09-983-204-6
5	2598	91.1	543	9	US-09-983-204-2
6	2481	87.0	518	9	US-09-983-204-4
7	2447	85.8	533	15	US-10-258-073-8
8	1369	48.0	512	15	US-10-258-073-6
9	1365	47.9	512	9	US-09-983-204-14
10	1365	47.9	512	15	US-10-258-073-2
11	1329	46.6	526	9	US-09-983-204-13
12	1321.5	46.4	514	12	US-10-092-900A-104
13	1180	41.4	539	10	US-09-772-180A-8
14	1180	41.4	539	15	US-10-295-027-290
15	1175	41.2	539	10	US-09-772-180A-2

16	1134.5	39.8	587	10	US-09-772-180A-4
17	407.5	14.3	669	9	US-09-983-204-15
18	407.5	14.3	669	12	US-10-133-573-4
19	407.5	14.3	669	13	US-10-133-157-4
20	407.5	14.3	669	14	US-10-097-340-278
21	407.5	14.3	669	15	US-10-373-801-28
22	407	14.3	669	14	US-10-097-340-280
23	373.5	13.1	640	12	US-10-133-573-5
24	373.5	13.1	640	13	US-10-133-157-5
25	371.5	13.0	640	9	US-09-983-204-16
26	350	12.3	649	12	US-10-133-573-6
27	350	12.3	649	13	US-10-133-157-6
28	347	12.2	64	15	US-10-258-073-20
29	344.5	12.1	515	9	US-09-983-204-19
30	341	12.0	649	9	US-09-983-204-17
31	335.5	11.8	150	9	US-09-860-670-108
32	335.5	11.8	150	15	US-10-227-646-108
33	328	11.5	103	10	US-09-772-180A-6
34	320.5	11.2	704	15	US-10-104-047-3501
35	315.5	11.1	638	9	US-09-983-204-18
36	315.5	11.1	638	12	US-10-133-573-8
37	315.5	11.1	638	13	US-10-133-157-8
38	249	8.7	46	15	US-10-258-073-26
39	243	8.5	374	15	US-10-104-047-3578
40	213	7.5	555	14	US-10-168-651-27
41	194	6.8	114	14	US-10-106-698-6921
42	193.5	6.8	907	15	US-10-369-493-6677
43	187	6.6	90	9	US-09-864-761-43578
44	156.5	5.5	96	9	US-09-864-761-47039
45	143.5	5.0	46	12	US-10-276-774-1604

ALIGNMENTS

RESULT 1

US-10-258-073-4
; Sequence 4, Application US/10258073
; Publication No. US20030219858A1
; GENERAL INFORMATION:
; APPLICANT: McGill University
; APPLICANT: Babineki, Kazimierz
; APPLICANT: Seguela, Philippe
; TITLE OF INVENTION: A NOVEL HETEROMULTIMERIC ION CHANNEL RECEPTOR AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 0103.001-WO-US
; CURRENT APPLICATION NUMBER: US/10/258,073
; CURRENT FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: PCT/CA01/00561
; PRIOR FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 4
; LENGTH: 531
; TYPE: PRT
; ORGANISM: HUMAN ASIC3
US-10-258-073-4

Query Match	100.0%	Score	2851	DB	15	Length	531
Best Local Similarity	100.0%	Pred. No.	6.9e-254	Indels	0	Gaps	0
Matches	531	Conservative	0	Mismatches	0		
QY	1	MKPTSGPEEARQPSDIRVFASNC	MGHGLGHVFGPGSLRRGMWAAA	VVLVSATFLYQV	60		
DB	1	MKPTSGPEEARQPSDIRVFASNC	MEGLGHVFGPGSLRRGMWAAA	VVLVSATFLYQV	60		
QY	61	AERYVYREFHQTALDERESHLVFP	AVTLNINPLRSRLTPNDLHWAGSALLGLDPA	120			
DB	61	AERYVYREFHQTALDERESHLVFP	AVTLNINPLRSRLTPNDLHWAGSALLGLDPA	120			
QY	121	EHAFLRALGRPPAPGFMPSPTFD	MAQLYARAGHSLDDMLDCRFRGCPGPNFTTIF	180			
DB	121	EHAFLRALGRPPAPGFMPSPTFD	MAQLYARAGHSLDDMLDCRFRGCPGPNFTTIF	180			

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QY 181 TRMGKCYTFNSGADGAEALLTTTRGCMGNGLDMLDVQOEYLPVWRDNEETPEVGIRVQ 240
DB 181 TRMGKCYTFNSGADGAEALLTTTRGCMGNGLDMLDVQOEYLPVWRDNEETPEVGIRVQ 240
QY 241 IHSQEEPPIDOLGLGVSPGYQTFVSCQQQLSFLPPWGDCCSSASLNPNYEPSPDPLG 300
DB 241 IHSQEEPPIDOLGLGVSPGYQTFVSCQQQLSFLPPWGDCCSSASLNPNYEPSPDPLG 300
QY 301 SPSPSPSPPYTLMGCRILACETRYVARKCGCRMYMPGDVPCVSPQOYKNCAPDAIDAILR 360
DB 301 SPSPSPSPPYTLMGCRILACETRYVARKCGCRMYMPGDVPCVSPQOYKNCAPDAIDAILR 360
QY 361 KDSACACNPACSTRYAKELSMWRIPSRARAFRLARKLNSEAYIAENVLALDIFFEALNY 420
DB 361 KDSACACNPACSTRYAKELSMWRIPSRARAFRLARKLNSEAYIAENVLALDIFFEALNY 420
QY 421 ETVEQKAYEMSELLGIGQMGLFICASLLTILEILDVYLCEVFRDVKVLYGFWMNRQHSOR 480
DB 421 ETVEQKAYEMSELLGIGQMGLFICASLLTILEILDVYLCEVFRDVKVLYGFWMNRQHSOR 480
QY 481 HSSTNLLQEGLSGHRTOVPHLSLGRPPPTPPCAVTTLSASHRTCYLVITQL 531
DB 481 HSSTNLLQEGLSGHRTOVPHLSLGRPPPTPPCAVTTLSASHRTCYLVITQL 531

RESULT 2
US-10-345-680-56
; Sequence 56, Application US/10345680
; Publication No. US20030148394A1
; GENERAL INFORMATION:
; APPLICANT: Millenium Pharmaceuticals, Inc.
; APPLICANT: Silos-Santiago, Imaculada
; APPLICANT: Venkateswarlu, Karicheti
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,
; TITLE OF INVENTION: 641, 260, 55089, 21407, 42032, 46656, 62553, 302, 323,
; TITLE OF INVENTION: 12303, 985, 13237, 13601, 18926, 318, 2058 OR 6351 MOLECULES.
; FILE REFERENCE: MPI02-012P1RNM OWN
; CURRENT APPLICATION NUMBER: US/10/345,680
; CURRENT FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: US 60/349,511
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 60/360,500
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/365,041
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/374,063
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/403,468
; PRIOR FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: US 60/414,262
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: US 60/419,986
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/423,809
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 60/429,797
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56
; LENGTH: 531
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-345-680-56

Query Match 99.4%; Score 2833; DB 14; Length 531;
Best Local Similarity 99.2%; Pred. No. 3.2e-252;
Matches 527; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 MKPTSGPEARRQPSDIRVFASNCMSHGLGHVFGPGLSLRRGMWAAAVLSVATFLYQV 60

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DB 1 MKPTSGPEARRQPSDIRVFASNCMSHGLGHVFGPGLSLRRGMWAAAVLSVATFLYQV 60
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DB 61 AERVYRYEFHQHTALDERESHRLVFPVAVLCININPLRRSRLTENDLHWAGSALLGLDPA 120
QY 121 EHAFAFLRALGPRPAPPFGMPSPPTFDMALQYARAGHSDDMLDCRFRSGQCGPENFTIF 180
DB 121 EHAFAFLRALGPRPAPPFGMPSPPTFDMALQYARAGHSDDMLDCRFRSGQCGPENFTIF 180
QY 191 TRMGKCYTFNSGADGAEALLTTTRGCMGNGLDMLDVQOEYLPVWRDNEETPEVGIRVQ 240
DB 191 TRMGKCYTFNSGADGAEALLTTTRGCMGNGLDMLDVQOEYLPVWRDNEETPEVGIRVQ 240
QY 241 IHSQEEPPIDOLGLGVSPGYQTFVSCQQQLSFLPPWGDCCSSASLNPNYEPSPDPLG 300
DB 241 IHSQEEPPIDOLGLGVSPGYQTFVSCQQQLSFLPPWGDCCSSASLNPNYEPSPDPLG 300
QY 301 SPSPSPSPPYTLMGCRILACETRYVARKCGCRMYMPGDVPCVSPQOYKNCAPDAIDAILR 360
DB 301 SPSPSPSPPYTLMGCRILACETRYVARKCGCRMYMPGDVPCVSPQOYKNCAPDAIDAILR 360
QY 361 KDSACACNPACSTRYAKELSMWRIPSRARAFRLARKLNSEAYIAENVLALDIFFEALNY 420
DB 361 KDSACACNPACSTRYAKELSMWRIPSRARAFRLARKLNSEAYIAENVLALDIFFEALNY 420
QY 421 ETVEQKAYEMSELLGIGQMGLFICASLLTILEILDVYLCEVFRDVKVLYGFWMNRQHSOR 480
DB 421 ETVEQKAYEMSELLGIGQMGLFICASLLTILEILDVYLCEVFRDVKVLYGFWMNRQHSOR 480
QY 481 HSSTNLLQEGLSGHRTOVPHLSLGRPPPTPPCAVTTLSASHRTCYLVITQL 531
DB 481 HSSTNLLQEGLSGHRTOVPHLSLGRPPPTPPCAVTTLSASHRTCYLVITQL 531

RESULT 3
US-10-366-288-44
; Sequence 44, Application US/10366288
; Publication No. US20030216288A1
; GENERAL INFORMATION:
; APPLICANT: Powell, Douglas
; APPLICANT: Weich, Nadine S.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: AIDS AND HIV-RELATED DISORDERS USING 1414, 1481, 1553,
; TITLE OF INVENTION: 34021, 1720, 1683, 1552, 1682, 1675, 12825, 9552, 5816,
; TITLE OF INVENTION: 10002, 1611, 1371, 14324, 126, 270, 312, 167, 326, 18926,
; FILE REFERENCE: MPI02-025P1RNMNTM
; CURRENT APPLICATION NUMBER: US/10/366,288
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: 60/357,391
; PRIOR FILING DATE: 2002-02-15
; PRIOR APPLICATION NUMBER: 60/380,249
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: 60/391,306
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: 60/406,297
; PRIOR FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: 60/412,007
; PRIOR FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: 60/417,508
; PRIOR FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/432,318
; PRIOR FILING DATE: 2002-12-10
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 44
; LENGTH: 531
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-366-288-44

Query Match 99.4%; Score 2833; DB 15; Length 531;

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Best Local Similarity 99.2%; Pred. No. 3.2e-252;
Matches 527; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

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DB 1 MKPTSGPEARRQPSDIRVFASNCMHGLGHVFGPGSLSLRRGMWAAAVVLVSATFLYQV 60

QY 61 AERVYRYREPHQHTALDERESHRLVFPVAVTLGNINPLRRSRLTPNDLHWAGSALLGLDPA 120
DB 61 AERVYRYREPHQHTALDERESHRLVFPVAVTLGNINPLRRSRLTPNDLHWAGSALLGLDPA 120

QY 121 EHAFLALGRPPAPPGFMPSTFDMAQLYARAGHSLDDMLDCFRGQPCGPFNTTIF 180
DB 121 EHAFLALGRPPAPPGFMPSTFDMAQLYARAGHSLDDMLDCFRGQPCGPFNTTIF 180

QY 181 TRMGKCVTFNSGADGAEELLTTTRGGMGNGLDIMLVQOBEYLPVWRDNEETPFVGIQV 240
DB 181 TRMGKCVTFNSGADGAEELLTTTRGGMGNGLDIMLVQOBEYLPVWRDNEETPFVGIQV 240

QY 241 IHSQEEPPIDQLGLGVSPGYQTFVSCQOQLSFLPPWGDCCSSASLNPNYEPESDPLG 300
DB 241 IHSQEEPPIDQLGLGVSPGYQTFVSCQOQLSFLPPWGDCCSSASLNPNYEPESDPLG 300

QY 301 SPSPSPSPPTLMGCRACETRYVARKCGCRVMYMGDPVPCSPQOYKNCAPDAIDLR 360
DB 301 SPSPSPSPPTLMGCRACETRYVARKCGCRVMYMGDPVPCSPQOYKNCAPDAIDLR 360

QY 361 KDSACNPNCASTRYAKELSMVRIPSRAARFLARKLNSEAYIAENVLALDIPFEALNY 420
DB 361 KDSACNPNCASTRYAKELSMVRIPSRAARFLARKLNSEAYIAENVLALDIPFEALNY 420

QY 421 ETVEQKAYEMSELLGIGQMGLFTGASLLTILSDYLCVFRDKVLGYFWRNQHRSQR 480
DB 421 ETVEQKAYEMSELLGIGQMGLFTGASLLTILSDYLCVFRDKVLGYFWRNQHRSQR 480

QY 481 HSTNLLQEGLSHRTQVPHLSLGRPTTPECAVTKTLSASHTCYLVTLQ 531
DB 481 HSTNLLQEGLSHRTQVPHLSLGRPTTPECAVTKTLSASHTCYLVTLQ 531

RESULT 4
US-09-983-204-6
; Sequence 6, Application US/09983204
; Patent No. US20020173000A1
; GENERAL INFORMATION:
; APPLICANT: RENARD, STEPHANE
; APPLICANT: BESNARD, FRANCOIS
; APPLICANT: GRAHAM, DAVID
; TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR
; FILE REFERENCE: 07586.0010
; CURRENT APPLICATION NUMBER: US/09/983,204
; CURRENT FILING DATE: 2001-10-23
; PRIOR FILING DATE: 09/424,666
; PRIOR APPLICATION NUMBER: PCT/EP98/02884
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 97401196.7
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 549
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-983-204-6

Query Match
Best Local Similarity 94.9%; Score 2706; DB 9; Length 549;
Matches 513; Conservative 3; Mismatches 14; Indels 15; Gaps 2;

QY 1 MKPTSGPEARRQPSDIRVFASNCMHGLGHVFGPGSLSLRRGMWAAAVVLVSATFLYQV 60
DB 1 MKPTSGPEARRQPSDIRVFASNCMHGLGHVFGPGSLSLRRGMWAAAVVLVSATFLYQV 60

QY 61 AERVYRYREPHQHTALDERESHRLVFPVAVTLGNINPLRRSRLTPNDLHWAGSALLGLDPA 120
DB 61 AERVYRYREPHQHTALDERESHRLVFPVAVTLGNINPLRRSRLTPNDLHWAGSALLGLDPA 120

QY 121 EHAFLALGRPPAPPGFMPSTFDMAQLYARAGHSLDDMLDCFRGQPCGPFNTTIF 180
DB 121 EHAFLALGRPPAPPGFMPSTFDMAQLYARAGHSLDDMLDCFRGQPCGPFNTTIF 180

QY 181 TRMGKCVTFNSGADGAEELLTTTRGGMGNGLDIMLVQOBEYLPVWRDNEETPFVGIQV 240
DB 181 TRMGKCVTFNSGADGAEELLTTTRGGMGNGLDIMLVQOBEYLPVWRDNEETPFVGIQV 240

QY 241 IHSQEEPPIDQLGLGVSPGYQTFVSCQOQLSFLPPWGDCCSSASLNPNYEPESDPLG 300
DB 241 IHSQEEPPIDQLGLGVSPGYQTFVSCQOQLSFLPPWGDCCSSASLNPNYEPESDPLG 300

QY 301 SPSPSPSPPTLMGCRACETRYVARKCGCRVMYMGDPVPCSPQOYKNCAPDAIDLR 360
DB 301 SPSPSPSPPTLMGCRACETRYVARKCGCRVMYMGDPVPCSPQOYKNCAPDAIDLR 360

QY 361 KDSACNPNCASTRYAKELSMVRIPSRAARFLARKLNSEAYIAENVLALDIPFEALNY 420
DB 361 KDSACNPNCASTRYAKELSMVRIPSRAARFLARKLNSEAYIAENVLALDIPFEALNY 420

QY 421 ETVEQKAYEMSELLGIGQMGLFTGASLLTILSDYLCVFRDKVLGYFWRNQHRSQR 480
DB 421 ETVEQKAYEMSELLGIGQMGLFTGASLLTILSDYLCVFRDKVLGYFWRNQHRSQR 480

QY 481 HSTNLLQEGLSHRTQVPHLSLGRPTTPECAVTKTLSASHTCYLVTLQ 524
DB 481 HSTNLLQEGLSHRTQVPHLSLGRPTTPECAVTKTLSASHTCYLVTLQ 524

QY 525 CYLV 528
DB 541 AVCV 544

RESULT 5
US-09-983-204-2
; Sequence 2, Application US/09983204
; Patent No. US20020173000A1
; GENERAL INFORMATION:
; APPLICANT: RENARD, STEPHANE
; APPLICANT: BESNARD, FRANCOIS
; APPLICANT: GRAHAM, DAVID
; TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR
; FILE REFERENCE: 07586.0010
; CURRENT APPLICATION NUMBER: US/09/983,204
; CURRENT FILING DATE: 2001-10-23
; PRIOR FILING DATE: 09/424,666
; PRIOR APPLICATION NUMBER: PCT/EP98/02884
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 97401196.7
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 543
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-983-204-2

Query Match
Best Local Similarity 91.1%; Score 2598; DB 9; Length 543;
Matches 491; Conservative 4; Mismatches 12; Indels 16; Gaps 3;

QY 1 MKPTSGPEARRQPSDIRVFASNCMHGLGHVFGPGSLSLRRGMWAAAVVLVSATFLYQV 60
DB 1 MKPTSGPEARRQPSDIRVFASNCMHGLGHVFGPGSLSLRRGMWAAAVVLVSATFLYQV 60

QY 61 AERVYRYREPHQHTALDERESHRLVFPVAVTLGNINPLRRSRLTPNDLHWAGSALLGLDPA 120

Db 61 AERVRYREPHQHTALDERESHRLIPAVTLNINPLRRSRLTPNDLHWAGSALLGLDPA 120
Qy 121 EHAFLRALGRPPAPPGFMSPTFDMAQLYARAGHSLDDMLDCRFRGQPCGPNFTTIF 180
Db 121 EHAFLRALGRPPAPPGFMSPTFDMAQLYARAGHSLDDMLDCRFRGQPCGPNFTTIF 180
Qy 181 TRMGKCYTFNSGADGAEALLTTTRGGMNGGLDMLDVQOBEYLPVWRDNEETPFEVGIRVQ 240
Db 181 TRMGKCYTFNSGADGAEALLTTTRGGMNGGLDMLDVQOBEYLPVWRDNEETPFEVGIRVQ 240
Qy 241 IHSQEEPIIDQLGLGVSPGYQTFVSCQQOQLSFLPPWGDCCSSASLNPNYEPSPDPLG 300
Db 241 IHSQEEPIIDQLGLGVSPGYQTFVSCQQOQLSFLPPWGDCCSSASLNPNYEPSPDPLG 300
Qy 301 SPSPSPSPPYTLMLGCRCLACETRVARCKGCRVMYMPGDVPCSPQOYKNCAPHAIDAILR 360
Db 301 SPSPSPSPPYTLMLGCRCLACETRVARCKGCRVMYMPGDVPCSPQOYKNCAPHAIDAILR 360
Qy 361 KDSACPNPCASTRYAKELSMWRIPPSRAAARFLARKLNSEYIAENVLALDIFFEALNY 420
Db 361 KDSACPNPCASTRYAKELSMWRIPPSRAAARFLARKLNSEYIAENVLALDIFFEALNY 420
Qy 421 ETVEOKAYEMSELLDGIQGMGLFIGASLLTILEILDYLCVPRDKVLGYFWMNRQHSQR 480
Db 421 ETVEOKAYEMSELLDGIQGMGLFIGASLLTILEILDYLCVPRDKVLGYFWMNRQHSQR 480
Qy 481 HSTNLLQOE-GLGSHRTQV---PHL-----SLGPRP 507
Db 481 HSTNLLQOE-GLGSHRTQV---PHL-----SLGPRP 507
Db 481 HSTNLLQOE-GLGSHRTQV---PHL-----SLGPRP 507
Db 481 HSTNLLQOE-GLGSHRTQV---PHL-----SLGPRP 507

RESULT 6

US-09-983-204-4
; Sequence 4, Application US/09983204
; Patent No. US2002017300A1
; GENERAL INFORMATION:
; APPLICANT: RENARD, STEPHANE
; APPLICANT: BESNARD, FRANCOIS
; APPLICANT: GRAHAM, DAVID
; TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR
; FILE REFERENCE: 07596.0010
; CURRENT APPLICATION NUMBER: US/09/983,204
; PRIOR FILING DATE: 2001-10-23
; PRIOR FILING DATE: 09/424,666
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: PCT/EP98/02884
; PRIOR FILING DATE: 1998-05-15
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 518
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-983-204-4

Query Match 87.0%; Score 2481; DB 9; Length 518;
Best Local Similarity 94.0%; Pred. No. 9.1e-220;
Matches 468; Conservative 4; Mismatches 10; Indels 16; Gaps 3;
Qy 26 MEGHGVFGPGSLSRGMAAAVVLVATLYQVAERVRYREFFHQHTALDERESHRLV 85
Db 1 MEGHGVFGPGSLSRGMAAAVVLVATLYQVAERVRYREFFHQHTALDERESHRLV 60
Qy 86 FPVTLNINPLRRSRLTPNDLHWAGSALLGLDPAEHAFLRALGRPPAPPGFMSPTFD 145
Db 61 FPVTLNINPLRRSRLTPNDLHWAGSALLGLDPAEHAFLRALGRPPAPPGFMSPTFD 120
Qy 146 MAQLYARAGHSLDDMLDCRFRGQPCGPNFTTIFTRMGKCYTFNSGADGAEALLTTTRGG 205
Db 121 MAQLYARAGHSLDDMLDCRFRGQPCGPNFTTIFTRMGKCYTFNSGADGAEALLTTTRGG 180

Qy 206 MNGGLDMLDVQOBEYLPVWRDNEETPFEVGIRVQIHSQEEPIIDQLGLGVSPGYQTFV 265
Db 181 MNGGLDMLDVQOBEYLPVWRDNEETPFEVGIRVQIHSQEEPIIDQLGLGVSPGYQTFV 240
Qy 266 SCQQOQLSFLPPWGDCCSSASLNPNYEPSPDPLGSPSPSPPYTLMLGCRCLACETRIVA 325
Db 241 SCQQOQLSFLPPWGDCCSSASLNPNYEPSPDPLGSPSPSPPYTLMLGCRCLACETRIVA 300
Qy 326 RKCCRMVYMPGDVPCSPQOYKNCAPHAIDAILRKDSCACPNPCASTRYAKELSMWRIP 385
Db 301 RKCCRMVYMPGDVPCSPQOYKNCAPHAIDAILRKDSCACPNPCASTRYAKELSMWRIP 360
Qy 386 SRAAARFLARKLNSEYIAENVLALDIFFEALNYETVEOKAYEMSELLDGIQGMGLF 445
Db 361 SRAAARFLARKLNSEYIAENVLALDIFFEALNYETVEOKAYEMSELLDGIQGMGLF 420
Qy 446 IGASLLTILEILDYLCVPRDKVLGYFWMNRQHSSTNLLQOE-GLGSHRTQV---PHL 501
Db 421 IGASLLTILEILDYLCVPRDKVLGYFWMNRQHSSTNLLQOE-GLGSHRTQV---PHL 480
Qy 502 -----SLGPRP 507
Db 481 LPCHTALDLLSVSSEPRP 498

RESULT 7

US-10-258-073-8
; Sequence 8, Application US/10258073
; Publication No. US20030219858A1
; GENERAL INFORMATION:
; APPLICANT: McGill University
; APPLICANT: Babinski, Kazimierz
; APPLICANT: Sequela, Philippe
; TITLE OF INVENTION: A NOVEL HETEROMULTIMERIC ION CHANNEL RECEPTOR AND USES
; FILE REFERENCE: 0103.001-WO-US
; CURRENT APPLICATION NUMBER: US/10/258,073
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: PCT/CA01/00561
; PRIOR FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 533
; TYPE: PRT
; ORGANISM: RAT ASIC2A
US-10-258-073-8

Query Match 85.8%; Score 2447; DB 15; Length 533;
Best Local Similarity 83.5%; Pred. No. 1.3e-216;
Matches 445; Conservative 49; Mismatches 37; Indels 2; Gaps 2;
Qy 1 MKPTSGPEEA-RRQPSDIRVPASNCMEGLGHVFGPGSLSRGMAAAVVLVATLYQ 59
Db 1 MKPTSGPEEA-RRQPSDIRVPASNCMEGLGHVFGPGSLSRGMAAAVVLVATLYQ 60
Qy 60 VAERVRYREFFHQHTALDERESHRLVFPVTLNINPLRRSRLTPNDLHWAGSALLGLD 119
Db 61 VAERVRYREFFHQHTALDERESHRLVFPVTLNINPLRRSRLTPNDLHWAGSALLGLD 120
Qy 120 ASHAFLRALGRPPAPPGFMSPTFDMAQLYARAGHSLDDMLDCRFRGQPCGPNFTT 179
Db 121 ASHAFLRALGRPPAPPGFMSPTFDMAQLYARAGHSLDDMLDCRFRGQPCGPNFTT 180
Qy 180 FTRMGKCYTFNSGADGAEALLTTTRGGMNGGLDMLDVQOBEYLPVWRDNEETPFEVGIRV 239
Db 181 FTRMGKCYTFNSGADGAEALLTTTRGGMNGGLDMLDVQOBEYLPVWRDNEETPFEVGIRV 240
Qy 240 QIHSQEEPIIDQLGLGVSPGYQTFVSCQQOQLSFLPPWGDCCSSASLNPNYEPSPD 298
Db 241 QIHSQEEPIIDQLGLGVSPGYQTFVSCQQOQLSFLPPWGDCCSSASLNPNYEPSPD 300

Qy 299 LGSFSPSPSPYTLMGCRACETRYVARKCGRMVMPGDPVYCSPOQYKNCAPDAI 358
Db 301 LGSFSPSPSPYTLMGCRACETRYVARKCGRMVMPGDPVYCSPOQYKNCAPDAI 360
Qy 359 LRKDSACPNPCASTRYAKELSMVRIPSRARAFARLKNRSEAYTAENVLALDIFFEAL 418
Db 361 LRKDTVCNPNPCASTRYAKELSMVRIPSRARAFARLKNRSEAYTAENVLALDIFFEAL 420
Qy 419 NYETVEOKKAYEMSELLDGGQGLFVIGASLLTILEILDYLCVFRDKVLGYFVNRQS 478
Db 421 NYEAVEOKKAYEMSELLDGGQGLFVIGASLLTILEILDYLCVFRDKVLGYFVNRQS 480
Qy 479 QRSHSTNLLQEGLSHRTQVPHSLGSRPPTPCAVTKLSASHRTCYLVTL 531
Db 481 QRSGNTLLQEGLSHRTQVPHSLGSRPPTPCAVTKLSASHRTCYLVTL 533

RESULT 9
US-10-258-073-6
; Sequence 6, Application US/10258073
; Publication No. US20030219858A1
; GENERAL INFORMATION:
; APPLICANT: McGill University
; APPLICANT: Babinski, Kazimierz
; APPLICANT: Seguela, Philippe
; TITLE OF INVENTION: A NOVEL HETEROMULTIMERIC ION CHANNEL RECEPTOR AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 0103.001-WO-US
; CURRENT APPLICATION NUMBER: US/10/258,073
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: PCT/CA01/00561
; PRIOR FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 6
; LENGTH: 512
; TYPE: PRT
; ORGANISM: RAT ASIC2A
US-10-258-073-6

Query Match 48.0%; Score 1369; DB 15; Length 512;
Best Local Similarity 50.8%; Pred. No. 3.6e-117;
Matches 256; Conservative 82; Mismatches 140; Indels 26; Gaps 5;

Qy 7 PEARRQPSDIRVFASNCMHGHLGVFGPSLSLRGMWAAAVLSVATFLYQVAERY 66
Db 7 PSEGLQPSGIQIFANTSTLHGIRHIFVYGPLTIRVLMWAFVGSGLLLVSESRVSY 66
Qy 67 YRFFHQTALDERESHRLVFPVATLNCNINPLRRSLTPNDLHWAGSALLGLD-----PAE 121
Db 67 YFSYQHVTKVDEVVAQSLVFPVATLNCNINPLRRSLTPNDLHWAGSALLGLD-----PAE 126
Qy 122 HAA-----FLRALGRPPAPPMPSPFTDMAQLYARAGHSLDDMLDCRFRGQCGPENFTT 178
Db 127 HLADPTVLEALRQKANKFKYKPK-QFSMLEFLHRVGHDLKDWMLYCKFKGQCGHODFTT 185
Qy 179 IFRMGKCYTFNSGADCAELLTTTRGGMGNGLDMLDVQOEYLPVWRDNEETPEVGR 238
Db 127 HLADPTVLEALRQKANKFKYKPK-QFSMLEFLHRVGHDLKDWMLYCKFKGQCGHODFTT 185
Qy 179 IFRMGKCYTFNSGADCAELLTTTRGGMGNGLDMLDVQOEYLPVWRDNEETPEVGR 238
Db 186 VFTKYGKCYMFGSDEGDKPLLTIVKGGTNGLEMLDIOQDEVLRWGTEETTEAGVK 245
Qy 239 VQHSQSEPPFIIDQLGLVSPGYQTFVSCQQOQLSFLPPWGCSSASLNPNYEPSPDP 298
Db 246 VQHSQSEPPFIIDQLGLVSPGYQTFVSCQQOQLSFLPPWGCSSASLNPNYEPSPDP 298
Qy 239 VQHSQSEPPFIIDQLGLVSPGYQTFVSCQQOQLSFLPPWGCSSASLNPNYEPSPDP 298
Db 246 VQHSQSEPPFIIDQLGLVSPGYQTFVSCQQOQLSFLPPWGCSSASLNPNYEPSPDP 298
Qy 299 LGSFSPSPSPYTLMGCRACETRYVARKCGRMVMPGDPVYCSPOQYKNCAPDAI 358
Db 299 LGSFSPSPSPYTLMGCRACETRYVARKCGRMVMPGDPVYCSPOQYKNCAPDAI 350
Qy 299 LGSFSPSPSPYTLMGCRACETRYVARKCGRMVMPGDPVYCSPOQYKNCAPDAI 358
Db 299 LGSFSPSPSPYTLMGCRACETRYVARKCGRMVMPGDPVYCSPOQYKNCAPDAI 350
Qy 359 LRKDS--CACPNPCASTRYAKELSMVRIPSRARAFARLKNRSEAYTAENVLALDIFFE 416
Db 351 AEKDSNYCLRTCPNCTRYNKLKSMVKIPSKTSAKYLEKKFKSEKYSINILVLDIFFE 410
Qy 417 ALNYETVEOKKAYEMSELLDGGQGLFVIGASLLTILEILDYLCVFRDKVLGYFVNRQ 476

Db 411 ALNYETVEOKKAYEMSELLDGGQGLFVIGASLLTILEILDYLCVFRDKVLGYFVNRQ 470
Qy 477 HSQRHSSTNLLQEGLSHRTQVPH 500
Db 471 EEGSHDENMSTCDTMDPHSETISH 494

RESULT 9
US-09-983-204-14
; Sequence 14, Application US/09983204
; Patent No. US20020173000A1
; GENERAL INFORMATION:
; APPLICANT: RENARD, STEPHANE
; APPLICANT: BESNARD, FRANCOIS
; APPLICANT: GRAHAM, DAVID
; TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR
; FILE REFERENCE: 07596.0010
; CURRENT APPLICATION NUMBER: US/09/983,204
; CURRENT FILING DATE: 2001-10-23
; PRIOR APPLICATION NUMBER: 09/424,666
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: PCT/EP98/02884
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 97401196.7
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 14
; LENGTH: 512
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MDEG
US-09-983-204-14

Query Match 47.9%; Score 1365; DB 9; Length 512;
Best Local Similarity 50.6%; Pred. No. 3.8e-117;
Matches 255; Conservative 83; Mismatches 140; Indels 26; Gaps 5;

Qy 7 PEARRQPSDIRVFASNCMHGHLGVFGPSLSLRGMWAAAVLSVATFLYQVAERY 66
Db 7 PSEGLQPSGIQIFANTSTLHGIRHIFVYGPLTIRVLMWAFVGSGLLLVSESRVSY 66
Qy 67 YRFFHQTALDERESHRLVFPVATLNCNINPLRRSLTPNDLHWAGSALLGLD-----PAE 121
Db 67 YFSYQHVTKVDEVVAQSLVFPVATLNCNINPLRRSLTPNDLHWAGSALLGLD-----PAE 126
Qy 122 HAA-----FLRALGRPPAPPMPSPFTDMAQLYARAGHSLDDMLDCRFRGQCGPENFTT 178
Db 127 HLADPTVLEALRQKANKFKYKPK-QFSMLEFLHRVGHDLKDWMLYCKFKGQCGHODFTT 185
Qy 179 IFRMGKCYTFNSGADCAELLTTTRGGMGNGLDMLDVQOEYLPVWRDNEETPEVGR 238
Db 186 VFTKYGKCYMFGSDEGDKPLLTIVKGGTNGLEMLDIOQDEVLRWGTEETTEAGVK 245
Qy 239 VQHSQSEPPFIIDQLGLVSPGYQTFVSCQQOQLSFLPPWGCSSASLNPNYEPSPDP 298
Db 246 VQHSQSEPPFIIDQLGLVSPGYQTFVSCQQOQLSFLPPWGCSSASLNPNYEPSPDP 298
Qy 299 LGSFSPSPSPYTLMGCRACETRYVARKCGRMVMPGDPVYCSPOQYKNCAPDAI 358
Db 299 LGSFSPSPSPYTLMGCRACETRYVARKCGRMVMPGDPVYCSPOQYKNCAPDAI 350
Qy 359 LRKDS--CACPNPCASTRYAKELSMVRIPSRARAFARLKNRSEAYTAENVLALDIFFE 416
Db 351 AEKDSNYCLRTCPNCTRYNKLKSMVKIPSKTSAKYLEKKFKSEKYSINILVLDIFFE 410
Qy 417 ALNYETVEOKKAYEMSELLDGGQGLFVIGASLLTILEILDYLCVFRDKVLGYFVNRQ 476
Db 411 ALNYETVEOKKAYEMSELLDGGQGLFVIGASLLTILEILDYLCVFRDKVLGYFVNRQ 470
Qy 477 HSQRHSSTNLLQEGLSHRTQVPH 500

Db 471 DEGSHDENVSTCDMPNHSHTISH 494

RESULT 10

US-10-258-073-2
; Sequence 2, Application US/10258073
; Publication No. US20030219858A1
; GENERAL INFORMATION:
; APPLICANT: McGill University
; APPLICANT: Seguela, Philippe
; APPLICANT: Babinski, Kazimierz
; TITLE OF INVENTION: A NOVEL HETEROMULTIMERIC ION CHANNEL RECEPTOR AND USES
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: 0103.001-WO-US
; CURRENT FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: PCT/CA01/00561
; PRIOR FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 512
; TYPE: PRT
; ORGANISM: HUMAN ASIC2A
US-10-258-073-2

Query Match 47.9%; Score 1365; DB 15; Length 512;
Best Local Similarity 50.6%; Pred. No. 8.3e-117;
Matches 255; Conservative 83; Mismatches 140; Indels 26; Gaps 5;

QY 7 PEARQPSDIRVFASNCMHGHLVFGPGSLRRGWAAAVLSVATFLYQVAERYV 66
Db 7 PEGSLQPSIOIFANTSTLGHIRHIFVGPILTRVLMAVAFVGLGLLVESSEVS 66
QY 67 YREFHQALDERGSHRLVFPATVLCNINPLRRSLTNDLHWAGSALLGLD ---PAE 121
Db 67 YFSYQHTKVDEVAQSLVFPATVLCNINPLRRSLTNDLHWAGSALLGLD ---PAE 126
QY 122 HAA---FLALGRPPAPGFMSPPTDMAQLYARAGHSLDMLDCRFRGQPCGPNFTT 178
Db 127 HLAQPSVLEALRQKAFKHYKPK-QFSMLFLHRVGHDLKDMMLYKFKKGQECGQDFTT 185
QY 179 IFTRMGKCYTFNSGADGAELLTTTRGCMGNGLDIMLDVQOEYLPVWRNEETPREV 235
Db 186 VTKYKCYTFNSGADGAELLTTTRGCMGNGLDIMLDVQOEYLPVWRNEETPREV 238
QY 239 VQIHSQSEPPFIQELGFGVAPGQTFVATQERLTLYLPPPWGECRSEMGLDF----- 298
Db 246 VQIHSQSEPPFIQELGFGVAPGQTFVATQERLTLYLPPPWGECRSEMGLDF----- 298
QY 299 LGSPSPSPSPPTVLMGCRACETRYVARKCGRMVYMPGDVPVCSPOQYKCAHPAI 358
Db 299 LGSPSPSPSPPTVLMGCRACETRYVARKCGRMVYMPGDVPVCSPOQYKCAHPAI 358
QY 359 LRKDS--CACPNPCASTRYAKELSMVRIPSRRAARFLARKNRSBAYIAENVALDI 416
Db 351 AEKDSNYCLRTPCNLTRYNELSMVKIPSKTSAKYLEKFNKSEKYSINILVLDI 410
QY 417 ALNYETVEKKAYEMSELLDGGOMGLFICGQGLFICGQGLFICGQGLFICGQGLF 476
Db 411 ALNYETVEKKAYEMSELLDGGOMGLFICGQGLFICGQGLFICGQGLFICGQGLF 470
QY 477 HSQRHSSTNLQEGLSHRTQVPH 500
Db 471 DEGSHDENVSTCDMPNHSHTISH 494

RESULT 11

US-09-983-204-13
; Sequence 13, Application US/09983204
; Patent No. US20020173000A1
; GENERAL INFORMATION:

; APPLICANT: RENARD, STEPHANE
; APPLICANT: BESNARD, FRANCOIS
; APPLICANT: GRAHAM, DAVID
; TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR
; FILE REFERENCE: 07586.0010
; CURRENT APPLICATION NUMBER: US/09/983.204
; CURRENT FILING DATE: 2001-10-23
; PRIOR APPLICATION NUMBER: 09/424,666
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: PCT/EP98/02884
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 97401196.7
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 526
; TYPE: PRT
; ORGANISM: Rattus norvegicus
; FEATURE:
; OTHER INFORMATION: ASIC
US-09-983-204-13

Query Match 46.6%; Score 1329; DB 9; Length 526;
Best Local Similarity 49.5%; Pred. No. 1.1e-113;
Matches 257; Conservative 79; Mismatches 127; Indels 56; Gaps 8;

QY 13 QPSDIRVFASNCMHGHLVFGPGSLRRGWAAAVLSVATFLYQVAERYVYREFH 72
Db 14 QPVSIOAFSSSTLGHIAHIFSYERUSLKRALWALCFLGLSLAVLCVCTERVQYVFCYHH 73
QY 73 QVALDERGSHRLVFPATVLCNINPLRRSLTNDLHWAGS---ALLG----- 116
Db 74 VTKLDEVAASQLTFPATVLCNINPLRRSLTNDLHWAGS---ALLG----- 133
QY 117 -LDPAAHAFALRALGRPPAPGFMSPPTDMAQLYARAGHSLDMLDCRFRGQPCGPN 175
Db 134 QEILQDKANFRS-----FKPKP-ENMREFYDRAGHDIRDMLLSCHFRGEACSAED 183
QY 176 FTTFTRMGKCYTFNSGADGAELLTTTRGCMGNGLDIMLDVQOEYLPVWRNEETPREV 235
Db 184 FKVFTFRYKCYTFNSGADGAELLTTTRGCMGNGLDIMLDVQOEYLPVWRNEETPREV 243
QY 236 GTRVQIHSQSEPPFIQELGFGVAPGQTFVATQERLTLYLPPPWGECRSEMGLDF----- 295
Db 244 GIKVQIHSQSEPPFIQELGFGVAPGQTFVATQERLTLYLPPPWGECRSEMGLDF----- 299
QY 296 SDPLGSPSPSPPTVLMGCRACETRYVARKCGRMVYMPGDVPVCSPOQYKCAHPAI 355
Db 300 SDPLGSPSPSPPTVLMGCRACETRYVARKCGRMVYMPGDVPVCSPOQYKCAHPAI 348
QY 356 DAILRDS--CACPNPCASTRYAKELSMVRIPSRRAARFLARKNRSBAYIAENVALDI 413
Db 349 DFLVEKQOEYCYVCEMPCNLTRYNELSMVKIPSKTSAKYLEKFNKSEKYSINILVLDI 408
QY 414 FFEALNYETVEKKAYEMSELLDGGOMGLFICGQGLFICGQGLFICGQGLFICGQGLF 473
Db 409 FFEALNYETVEKKAYEMSELLDGGOMGLFICGQGLFICGQGLFICGQGLFICGQGLF 464
QY 474 NFRQHSSTNLQEGLSHRTQVPHLSLGRPPPTPPC 512
Db 465 RRGKQKEAKSSADKGA-----LSLDDVKEHNP 495

RESULT 12

US-10-092-900A-104
; Sequence 104, Application US/10092900A
; Publication No. US20040043382A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Taupier Jr., Raymond J.

APPLICANT: Pena, Carol E.A.
APPLICANT: Li, Li
APPLICANT: Zerkhusen, Bryan D.
APPLICANT: Gusev, Vladimir Y.
APPLICANT: Ji, Weizhen
APPLICANT: Gorman, Linda
APPLICANT: Miller, Charles E.
APPLICANT: Kerkuda, Ramesh
APPLICANT: Patturajan, Meera
APPLICANT: Gangoli, Esha A.
APPLICANT: Vernet, Corine A.M.
APPLICANT: Guo, Xiaojia Sasha
APPLICANT: Tchernov, Velizar T.
APPLICANT: Fernandes, Elma R.
APPLICANT: Casman, Stacie J.
APPLICANT: Malyankar, Uriel M.
APPLICANT: Gerlach, Valerie
APPLICANT: Liu, Yi
APPLICANT: Anderson, David W.
APPLICANT: Spaderna, Steven K.
APPLICANT: Catterton, Elina
APPLICANT: Leite, Mario W.
APPLICANT: Zhong, Haihong
APPLICANT: Alsobrook, John P.
APPLICANT: Lepley, Denise M.
APPLICANT: Rieger, Daniel K.
APPLICANT: Burgess, Catherine E.
TITLE OF INVENTION: NO. US2004043382A1el Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-290C
CURRENT APPLICATION NUMBER: US/10/092,900A
CURRENT FILING DATE: 2002-03-07
PRIOR APPLICATION NUMBER: USN 60/274,322
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: USN 60/283,675
PRIOR FILING DATE: 2001-04-13
PRIOR APPLICATION NUMBER: USN 60/338,092
PRIOR FILING DATE: 2001-12-03
PRIOR APPLICATION NUMBER: USN 60/274,281
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: USN 60/274,191
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: USN 60/325,681
PRIOR FILING DATE: 2001-09-27
PRIOR APPLICATION NUMBER: USN 60/304,354
PRIOR FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: USN 60/279,995
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: USN 60/294,899
PRIOR FILING DATE: 2001-05-31
PRIOR APPLICATION NUMBER: USN 60/287,424
PRIOR FILING DATE: 2001-04-30
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 768
SEQ ID NO 104
LENGTH: 514
TYPE: PRT
ORGANISM: Homo sapiens
US-10-092-900A-104

Query Match 46.4%; Score 1321.5; DB 12; Length 514;
Best Local Similarity 53.9%; Pred. No. 8.7e-113;
Matches 244; Conservative 76; Mismatches 110; Indels 23; Gaps 6;
QY 13 QPSDIRVFASNCNMHGLGHVFGSGSLRRGMWAAAVLSVATFLYQVAERVYRYREFHH 72
DB 14 QPVDLVAFANSCUHLGTHNHFVEGGPGPROVLWAVAFVLAALGAFGLCQGVDRVAYLSYPH 73
QY 73 QVALDERESHRLVFPATVLCNINPLRSRLTNDLHWAGSALLGLDPAEHAFLALGRP 132
DB 74 VTLNEVATTELAEPAVTLCTNVAVLSQLSYFDLLYL-APMLGLDESDDPGVFLA---P 129
QY 133 PAPPGFMPSPTFDMAQLYARAGHSLDDMLDCRFRGQPCGPNFTTFTFRMCKCYTNSG 192

Db 130 PGPEAFSGEP-FNLHRYNRSCHRLDMLLYCSYQGGPCGPHNFVWTRRYCKYCTFNSG 188
QY 193 ADGAELLTTTRGCMGNGLDIMLDVQOEYLPVYRNEETPFVEVGIRVQIHSOEPPIDQ 252
Db 189 RDGRPLKTKMGOTGNGLEIMLDIQDEYLPVWGETDTSFEAGIKVQIHSQDEPPIDQ 248
QY 253 LGLGVSPGYOTFVSCQQQQLSELPPWGDSCSSALNPNVEPEPSPLGSPSPSPPYTL 312
Db 249 LGFGVAPGOTFVACQEQRI-YLPPPWGTCKAVTMDSDP-----FDSYSI 292
QY 313 MGCRLACETRYVARKGCGRMVYMPGVPCSPQQYKNCAPHAIDAAILRKDS--CACPNPC 370
Db 293 TACRIDCETRYLVENCRCRMVHMGDPAYCTPEQYKECADPALDELVEKQDYCVCEMPC 352
QY 371 ASTRYAKELSMVTIPSPRAARFLAKLRSEYAIENVLADIFFEALNYEVECKKAYE 430
Db 353 NLTRYKELSMVKIPSKASAKYLAKFNKSEQYIGENILVLDFFEVLNYETIEOKKAYE 412
QY 431 MSELLGDIGQMGFLFGASLLTILEILDYLCV 463
Db 413 IAGLGDIGQMGFLFGASILTVELEFDVAYEV 445
RESULT 13
US-09-772-180A-8
; Sequence 8, Application US/09772180A
; Publication No. US20030027749A1
; GENERAL INFORMATION:
; APPLICANT: David C. Harrison
; APPLICANT: John Davis
; APPLICANT: Sharon Bingham
; APPLICANT: Trudy R. Doe
; APPLICANT: Simon Tope
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GH-30021-C1
; CURRENT APPLICATION NUMBER: US/09/772,180A
; CURRENT FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: 09/063,848
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 9708936.1
; PRIOR FILING DATE: 1997-05-01
; PRIOR APPLICATION NUMBER: 97310289.0
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 9803566.0
; PRIOR FILING DATE: 1998-02-19
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 539
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
US-09-772-180A-8

Query Match 41.4%; Score 1180; DB 10; Length 539;
Best Local Similarity 49.8%; Pred. No. 1.1e-99;
Matches 247; Conservative 58; Mismatches 161; Indels 30; Gaps 9;
QY 14 PSDIRVFASNCNMHGLGHVFGSGSLRRGMWAAAVLSVATFLYQVAERVYRYREFHHQ 73
Db 39 PDLATFASSTLHGLGRACGPGHGLRRTLWALITSLAFLYCAAGLAGYLTREHL 98
QY 74 TALDERESHRLV-FPATVLCNINPLRSRLTNDL-HWAGSALLGLDPAEHAFLALGR 131
Db 99 VAMDPAAPAVAGFPATVLCNINRFRHSALSADIFHLAN--LTGLFPKDRQGHRAAGLR 156
QY 132 PPAPPGFMPSPTFDMAQLYARAGHSLDDMLDCRFRGQPCGPNFTTFTFRMCKCYTNS 191
Db 157 YPEP-----DMVDILNRTGHQLADMLKSCNFSGHCSASNFVYTRYGKYCTN- 206
QY 192 GADCAELLTTTRGCMGNGLDIMLDVQOEYLPVYRNEETPFVEVGIRVQIHSOEPPID 251
Db 207 -ADFRSLPSRAGMGSGLEIMLDIQOEYLPVWRETNETSFAGIRVQIHSOEPPYIH 265

QY 252 QLGSGVSPGYQTFVSCQOQLSELPFPWGDSCSASLNPYEPSPDPLGSPSPSPPYT 311
Db 266 QLGFGVSPGFTFVSCQOQLTFLPQWGNCRAS-----ELREPELQGYSAVS 314
QY 312 LMGCLACETRYVARKCGCMVMPGDVPVCSQOQYKNCAPDAI--LRKDSACPNP 369
Db 315 VSACRLCEKAVLQRCHECMVMPGNETICPPNIYIECADHTLDSLGGGPEGPCFCTP 374
QY 370 CASTRYAKELSMVRIPRAAARFLARKLNSEAYIAENVLALDIFFEALNYETVEOKKAY 429
Db 375 CNLTRYKELSMVRIPNRSARYLARKYNEIYIENFLVDVFEALTSEAMEGAAAY 434
QY 430 EMSELLDGGQMLFTIGASLLTILBILYLCVFRDKVGLVFWNQHSHSSTNLLQE 489
Db 435 GLSALLDGLGQMLFTIGASLLTILBILYLCVFRDKVGLVFWNQHSHSSTNLLQE 493
QY 490 -GLGSHRTQVPHLSLG 504
Db 494 LGLQELKEQSPCPSLG 509

RESULT 14

US-10-295-027-290
; Sequence 290, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Fos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 290
; LENGTH: 539
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-295-027-290

Query Match 41.4%; Score 1180; DB 15; Length 539;
Best Local Similarity 49.8%; Pred. No. 1.1e-99;
Matches 247; Conservative 58; Mismatches 161; Indels 30; Gaps 9;

QY 14 PSDIRVFASNCMHGLGHVFGPGLSLRRGMAAAVLSVATFLYQVAERVYREFHHQ 73
Db 39 PRDLATFASTSTLHGLGRACGPGHGLRITLWALLTSLAAFLYQAGLARGYLTPHL 98
QY 74 TALLERESHRLV-FPAVTLNINFLRSLRTPNDL-HWAGSALIGLDPAEHAAFLRALGR 131
Db 99 VAMPAPAPAVAGPAPVATLNCINFRHSALSDADIFHLN--LTGLPPKDDRDGHRAGLR 156
QY 132 PPAPPGFWPSTFTFMAOLYARAGHSLLDDMLDCRFQOCPGCPENFTTIFTRMGKCYTFS 191
Db 157 YPEP-----DWDLILNRTGHLADMLKSCNFSGHHCASGNSFVWYTRYKCYTFN- 206
QY 192 GADCAELLTTTRGGMGNGLDIMLDVQOEYLPWRDNEETPFVGRVQIHSSEEPPIID 251
Db 207 -ADPRSLPGRAGMGSLIMLDIOOEYLPWRDNEETPFVGRVQIHSSEEPPIIH 265
QY 252 QLGSGVSPGYQTFVSCQOQLSELPFPWGDSCSASLNPYEPSPDPLGSPSPSPPYT 311
Db 266 QLGFGVSPGFTFVSCQOQLTFLPQWGNCRAS-----ELREPELQGYSAVS 314
QY 312 LMGCLACETRYVARKCGCMVMPGDVPVCSQOQYKNCAPDAI--LRKDSACPNP 369
Db 315 VSACRLCEKAVLQRCHECMVMPGNETICPPNIYIECADHTLDSLGGGPEGPCFCTP 374
QY 370 CASTRYAKELSMVRIPRAAARFLARKLNSEAYIAENVLALDIFFEALNYETVEOKKAY 429
Db 375 CNLTRYKELSMVRIPNRSARYLARKYNEIYIENFLVDVFEALTSEAMEGAAAY 434
QY 430 EMSELLDGGQMLFTIGASLLTILBILYLCVFRDKVGLVFWNQHSHSSTNLLQE 489
Db 435 GLSALLDGLGQMLFTIGASLLTILBILYLCVFRDKVGLVFWNQHSHSSTNLLQE 493
QY 490 -GLGSHRTQVPHLSLG 504
Db 494 LGLQELKEQSPCPSLG 509

RESULT 15

US-09-772-180A-2
; Sequence 2, Application US/09772180A
; Publication No. US20030027749A1
; GENERAL INFORMATION:
; APPLICANT: David C. Harrison
; APPLICANT: John Davis
; APPLICANT: Sharon Bingham
; APPLICANT: Trudy R. Doe
; APPLICANT: Simon Topp
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GH-30021-CI
; CURRENT APPLICATION NUMBER: US/09/772,180A
; CURRENT FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: 09/063,848
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 9708936.1
; PRIOR FILING DATE: 1997-05-01
; PRIOR APPLICATION NUMBER: 97310289.0
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 9803566.0
; PRIOR FILING DATE: 1998-02-19
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 539
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
US-09-772-180A-2

Query Match 41.2%; Score 1175; DB 10; Length 539;
Best Local Similarity 49.6%; Pred. No. 3e-99;
Matches 246; Conservative 58; Mismatches 162; Indels 30; Gaps 9;

QY 14 PSDIRVFASNCMHGLGHVFGPGLSLRRGMAAAVLSVATFLYQVAERVYREFHHQ 73

Db 39 PROLATPASTTSLHGLGRACGPGHGLRRTLWALALLTSLAFLYQAAAGPARGYLTRHL 98
Qy 74 TALDERESHV-FPAVTLNINPLRRSLTPNDL-HWAGSALLGLDPAEHAFLRALGR 131
Db 99 VANDPAPAPVAGFPVATLNCINRPHSALSADADIFHLAN--LTGLPPKDRDCHRAAGLR 156
Qy 132 PPAPPGFMSPTDMAQLVARAGHSLLDDMLDCRFRGQCGPENFTTIFTRMGKCYTPNS 191
Db 157 YPEP-----DMVDILNRTGHQADMLKSCNFSGHCSASNFSVVTRYGKCYTEN- 206
Qy 192 GADGAELLTTTRGGMNGLDIMLDVQOEYLPVWRDNEETPEVGIRVQIHSQEPPIID 251
Db 207 -ADPRSLPSRACGMSGLEIMLDIQOEYLPFWRETNETSEACIRVQIHSQEPPIH 265
Qy 252 QLGGLVSPGYQTVSCQOOLSLPPPWGDCSSASLNPVPEPSPDPLGSPSPSPSPPYT 311
Db 266 QLGFGVSPGQTVSCQOQLTYLPQWGNCRAS-----ELREPELOQYSAYS 314
Qy 312 LMSGLACETRYVARKCGRWVMPGDVPVCSPOQVNCNCAHPAIDAI--LRKDSACACNP 369
Db 315 VSACRLRCEKEAVLQRCHEWVMPGNETICPENIYIECADHTLSLGGGEGGCFCTPP 374
Qy 370 CASTRYAKELSMVRIPSRAAARTLARKLNRSAYIAENVLADIFFEALNYETVQKAY 429
Db 375 CNLTRYGKETSVMRIPNRSARYLARKYNRETYIRENLFVLDFVFEALTSEAMEQRAAY 434
Qy 430 EMBELLDIGGOMGLFIGASLLTLEILDVCEVEDKVLGYFVWNRQHSRHSSTNLQOE 489
Db 435 GLSALLGLGGOMGLFIGASILTLEILDYIIEVSWDR-LKRVWRPKTPLRTSTGGIST 493
Qy 490 -GLGSHRTQVPHLSLG 504
Db 494 LGLQELKEQSPCQSRG 509

Search completed: August 25, 2004, 13:11:47
Job time : 131 secs

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OM protein - protein search, using sw model

Run on: August 25, 2004, 12:49:58 ; Search time 33 Seconds
(without alignments)
830.709 Million cell updates/sec

Title: US-09-530-233-2
Perfect score: 2851
Sequence: 1 MKPSGPEEARQPSDIRVF.....CAVTKTSLASHTCYLVTQL 531

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
1: /cgn2_6/prodata/2/1aa/5A-COMB.pep: *
2: /cgn2_6/prodata/2/1aa/5B-COMB.pep: *
3: /cgn2_6/prodata/2/1aa/6A-COMB.pep: *
4: /cgn2_6/prodata/2/1aa/6B-COMB.pep: *
5: /cgn2_6/prodata/2/1aa/PCUTUS-COMB.pep: *
6: /cgn2_6/prodata/2/1aa/backfiles1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2833	99.4	531	3	US-09-360-197-14
2	2447	85.8	533	3	US-09-360-197-10
3	1365	47.9	512	2	US-08-828-596-2
4	1365	47.9	512	3	US-09-360-197-6
5	1337	46.9	559	3	US-09-360-197-8
6	1329	46.6	526	3	US-09-360-197-2
7	1319	46.3	514	3	US-09-360-197-4
8	1249.5	43.8	563	3	US-09-360-197-12
9	1180	41.4	539	4	US-09-518-959-8
10	1174	41.2	539	4	US-09-518-959-9
11	419	14.7	625	3	US-09-360-197-15
12	418.5	14.7	698	1	US-08-376-362A-20
13	403	14.1	564	3	US-09-360-197-16
14	342.5	12.0	493	6	5196333-4
15	341.5	12.0	755	3	US-07-861-458C-99
16	338.5	11.9	753	3	US-07-861-458C-98
17	320	11.2	520	3	US-07-861-458C-100
18	249	8.7	294	6	5196333-2
19	139	4.9	97	6	5196333-9
20	127	4.5	173	6	5196333-6
21	117	4.1	67	6	5196333-10
22	106.5	3.7	653	4	US-09-543-681A-4450
23	103	3.6	1739	4	US-09-976-594-76
24	101.5	3.6	1037	4	US-09-252-991A-17886
25	100.5	3.5	2476	2	US-08-276-967-2
26	98	3.4	40	3	US-07-861-458C-118
27	98	3.4	659	4	US-09-562-737-20

28	97.5	3.4	1051	4	US-09-428-711A-14	Sequence 14, Appl
29	97	3.4	73	6	5196333-5	Patent No. 5196333
30	94	3.3	422	3	US-08-790-186A-4	Sequence 4, Appl
31	93.5	3.3	247	4	US-09-252-991A-26899	Sequence 26899, A
32	93.5	3.3	301	4	US-09-489-039A-7272	Sequence 7272, Ap
33	93.5	3.3	415	4	US-08-601-132-41	Sequence 41, Appl
34	93.5	3.3	415	4	US-08-671-573B-41	Sequence 41, Appl
35	93.5	3.3	582	4	US-09-428-711A-2	Sequence 2, Appl
36	93	3.3	711	4	US-09-402-214-17	Sequence 17, Appl
37	92.5	3.2	415	3	US-08-795-430-11	Sequence 11, Appl
38	92.5	3.2	415	4	US-09-355-700-11	Sequence 11, Appl
39	92	3.2	692	4	US-09-252-991A-26724	Sequence 26724, A
40	91.5	3.2	543	4	US-09-535-008-63	Sequence 63, Appl
41	91.5	3.2	577	4	US-09-535-008-61	Sequence 61, Appl
42	91.5	3.2	1646	4	US-09-535-008-67	Sequence 67, Appl
43	91.5	3.2	1647	4	US-09-535-008-2	Sequence 2, Appl
44	91.5	3.2	1649	4	US-09-535-008-75	Sequence 75, Appl
45	91.5	3.2	1650	4	US-09-535-008-71	Sequence 71, Appl

ALIGNMENTS

RESULT 1

US-09-360-197-14
; Sequence 14, Application US/09360197
; Patent No. 6287659
; GENERAL INFORMATION:
; APPLICANT: Bassilana, Frederic
; APPLICANT: Lazdunski, Michel
; APPLICANT: Waldmann, Rainer
; APPLICANT: Deweille, Jan R.
; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
; TITLE OF INVENTION: Cationic Channels, Their Cloning and Applications
; FILE REFERENCE: 989.6786P
; CURRENT APPLICATION NUMBER: US/09/360,197
; PRIOR FILING DATE: 1997-07-23
; PRIOR APPLICATION NUMBER: 09/129,758
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/095,408
; PRIOR FILING DATE: 1998-08-05
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 14
; LENGTH: 531
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-360-197-14

Query Match	99.4%	Score	2833	DB	3	Length	531
Best Local Similarity	99.2%	Pred. No.	1.5e-273				
Matches	527	Conservative	2	Mismatches	2	Indels	0
Gaps	0						
Qy	1	MKPSGPEEARQPSDIRVFASNCMHGLGHVFGPSLSLRGWWAAAVLSVATFLYQV	60				
Db	1	MKPSGPEEARQPSDIRVFASNCMHGLGHVFGPSLSLRGWWAAAVLSVATFLYQV	60				
Qy	61	AERYVYREFHQTALDERESHRLVFPVAVTLCNINPLRRSLTFLNDLHWAGSALLGLDPA	120				
Db	61	AERYVYREFHQTALDERESHRLVFPVAVTLCNINPLRRSLTFLNDLHWAGSALLGLDPA	120				
Qy	121	EHAFLALGEPAPPGFNFSPFDMAQLYARAGHSDDMLDCRFRGQCGENETTF	180				
Db	121	EHAFLALGEPAPPGFNFSPFDMAQLYARAGHSDDMLDCRFRGQCGENETTF	180				
Qy	181	TRMGKCYTFNSGADGAELLTTTRGGMGNGLDMLDVQOEYLPVWRDNEETPEVGIRVQ	240				
Db	181	TRMGKCYTFNSGADGAELLTTTRGGMGNGLDMLDVQOEYLPVWRDNEETPEVGIRVQ	240				
Qy	241	IHSQEEPIIDQLGLGVSPGVQIFVSCQQQLSFLPPWGDCCSASLNPNYEPSPDLG	300				
Db	241	IHSQEEPIIDQLGLGVSPGVQIFVSCQQQLSFLPPWGDCCSASLNPNYEPSPDLG	300				

QY 301 SPSPSPSPYTLTGCRACETRYVARKCGCRVMYMPDGVPCSPQYKNCAPDAIDL 360
 DB 301 SPSPSPSPYTLTGCRACETRYVARKCGCRVMYMPDGVPCSPQYKNCAPDAIDL 360
 QY 361 KDSACBNCACSTAYAKELSWRIPSAARFLARKLNSEAYIAENVLALDIFFEALNY 420
 DB 361 KDSACBNCACSTAYAKELSWRIPSAARFLARKLNSEAYIAENVLALDIFFEALNY 420
 QY 421 ETVEQKAYEMSELLGIGQGMGLFAGSLLTILEILDYLCVFRDKVLGYFNNRQHSQR 480
 DB 421 ETVEQKAYEMSELLGIGQGMGLFAGSLLTILEILDYLCVFRDKVLGYFNNRQHSQR 480
 QY 481 HSSTNLLQBLGSHRTQVPHLSLGRPPPTPPCAVTKLSASHTCYLVTL 531
 DB 481 HSSTNLLQBLGSHRTQVPHLSLGRPPPTPPCAVTKLSASHTCYLVTL 531
 RESULT 2
 US-09-360-197-10
 ; Sequence 10, Application US/09360197
 ; Patent No. 6287859
 ; GENERAL INFORMATION:
 ; APPLICANT: Bassilana, Frederic
 ; APPLICANT: Lazdunski, Michel
 ; APPLICANT: Waldmann, Rainer
 ; APPLICANT: Deweille, Jan R.
 ; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
 ; FILE REFERENCE: 989.6706P
 ; CURRENT FILING DATE: 1997-07-23
 ; PRIOR APPLICATION NUMBER: US/09/360,197
 ; PRIOR FILING DATE: 1997-07-23
 ; PRIOR FILING DATE: 1998-08-05
 ; PRIOR APPLICATION NUMBER: 607/095, 408
 ; PRIOR FILING DATE: 1998-08-05
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 10
 ; TYPE: PRT
 ; ORGANISM: rattus sp.
 US-09-360-197-10

Query Match 85.8%; Score 2447; DB 3; Length 533;
 Best Local Similarity 83.5%; Pred. No. 4.6e-235;
 Matches 445; Conservative 49; Mismatches 37; Indels 2; Gaps 2;
 QY 1 MKPTSPPEA-RQPSDIRVFASNCMHGLGHVFGPSLSLRGMAAAVLSVATFLYQ 59
 DB 1 MKPRGLEBAQRQASDIRVFASNCMHGLGHVFGPSLSLRGMAAAVLSVATFLYQ 60
 QY 60 VAERVYRYEFHQALDERESHRLVFPVATLCNINPLRRSLTNDLHWAGSALLGLDP 119
 DB 61 VAERVYRYEYFHKTLDERESHQLTFPVTLCNINPLRRSLTNDLHWAGTALLGLDP 120
 QY 120 AHAFLRALGRPPAPPMPSTEDMAQLYARAGHSLDDMLDCRFRGQPCGENFTTI 179
 DB 121 AHAFLRALGRPPAPPMPSTEDMAQLYARAGHSLDDMLDCRFRGQPCGENFTTI 180
 QY 180 FTRMGKCYTFNSGADGAELTTTTRGGMGNGLDMLDVOOEVLFPWRDNBETPFEVGIRV 239
 DB 181 FTRMGKCYTFNSGADGAELTTTTRGGMGNGLDMLDVOOEVLFPWRDNBETPFEVGIRV 240
 QY 240 QIHSQEPPIIDQLGLGVSPGYQTFVSCQOQLSFLPPFGWDCSASLNP-NYRPEPSDP 298
 DB 241 QIHSQEPPIIDQLGLGVSPGYQTFVSCQOQLSFLPPFGWDCSASLNP-NYRPEPSDP 300
 QY 299 LGSPPSPSPYTLTGCRACETRYVARKCGCRVMYMPDGVPCSPQYKNCAPDAIDL 358
 DB 301 LGSPPSPSPYTLTGCRACETRYVARKCGCRVMYMPDGVPCSPQYKNCAPDAIDL 360
 QY 359 LRKDSACBNCACSTAYAKELSWRIPSAARFLARKLNSEAYIAENVLALDIFFEAL 418

DB 361 LRKDTVCNPNPCATTRYAKELSMVRIPSRASARYLARKYNRSSEYITENVLIDIFFEAL 420
 QY 419 NYETVEQKAYEMSELLGIGQGMGLFAGSLLTILEILDYLCVFRDKVLGYFNNRQHS 478
 DB 421 NYEAVEQKAYEYSELLGIGQGMGLFAGSLLTILEILDYLCVFRDKVLGYFNNRQHS 480
 QY 479 QRHSSTNLLQBLGSHRTQVPHLSLGRPPPTPPCAVTKLSASHTCYLVTL 531
 DB 481 QRHSSTNLLQBLGSHRTQVPHLSLGRPPPTPPCAVTKLSASHTCYLVTL 533
 RESULT 3
 US-08-828-596-2
 ; Sequence 2, Application US/08828596
 ; Patent No. 5892018
 ; GENERAL INFORMATION:
 ; APPLICANT: Welsh, Michael J.
 ; APPLICANT: Price, Margaret P.
 ; TITLE OF INVENTION: No. 5892018el Brain Sodium Channel Protein Family
 ; TITLE OF INVENTION: and DNA Sequences Encoding Same
 ; NUMBER OF SEQUENCES: 5
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Zarley, McKee, Thomte, Voorhees & Sease
 ; STREET: 801 Grand Suite 3200
 ; CITY: Des Moines
 ; STATE: Iowa
 ; COUNTRY: United States
 ; ZIP: 50309
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/828,596
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/626,838
 ; FILING DATE: 02-APR-1996
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Nebel, Heidi S.
 ; REGISTRATION NUMBER: 37,719
 ; REFERENCE/DOCKET NUMBER: uif n6-53
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 515-288-3667
 ; TELEFAX: 515-288-1338
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 512 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 US-08-828-596-2

Query Match 47.9%; Score 1365; DB 2; Length 512;
 Best Local Similarity 50.6%; Pred. No. 3.1e-127;
 Matches 255; Conservative 83; Mismatches 140; Indels 26; Gaps 5;
 QY 7 PEARQPSDIRVFASNCMHGLGHVFGPSLSLRGMAAAVLSVATFLYQVAVRY 66
 DB 7 PSEGSQPSIQIFANTLHGRHIFVYGPVITRVLWAVAFVSLGSLLLVSESSVY 66
 QY 67 YRFHHQTALDERESHRLVFPVATLCNINPLRRSLTNDLHWAGSALLGLD-PAE 121
 DB 67 YFSYQVTKVDEVAQSLVFPVATLCNINPLRRSLTNDLHWAGSALLGLD 126
 QY 122 HAA---FLALGRPPAPPMPSTEDMAQLYARAGHSLDDMLDCRFRGQPCGENFTT 178
 DB 127 HLAAPSVALEAQRKANKFKPK-KQF-SMLEFLHRYVGHDLKMMLYCKPKGQCGQDFTT 185
 QY 179 IFTRMGKCYTFNSGADGAELTTTTRGGMGNGLDMLDVOOEVLFPWRDNBETPFEVGIR 238

Db 186 VFTKYGCVNFNGEDGKPLITTVKGTGNGLEIMLDIQDQBYLPIWGETEBTTEAGVK 245
 Qy 239 VQIHSQEPPIIDOLGLGVSPGYQTVFVSCQQOQLSFLPPWGDGSSASLNPNYBEPSPD 298
 Db 246 VQIHSQEPPIIDOLGLGVSPGYQTVFVSCQQOQLSFLPPWGDGSSASLNPNYBEPSPD 298
 Qy 299 LGSPSPSPPYTLMGCRACETRYVARKCGRMVMPGDPVFCSPQOYKNCAPDAI 358
 Db 299 -----FPVYSITACRIDCETRYIVENCNCRVMHMPGDAPFCTPEQKKECAPALGL 350
 Qy 359 LRKDS--CACPNPCASTRYAKELSMVRIPSRRAARFLARKLNRSAYIAENVLADIEFE 416
 Db 351 AEKDSNYCLCETPCNITRYNKELSMVKIPSKTSYAKLEKFNKSEKYSINILVDIEFE 410
 Qy 417 ALMYETVEQKAYEMSELIDIGGOMGLFAGSLTILILEIDYLCVFRDKVLGYFWMRQ 476
 Db 411 ALMYETVEQKAYEVAALLDGGOMGLFAGSLTILILEIDYLCVFRDKVLGYFWMRQ 470
 Qy 477 HSQRHSSTNLQGLGSHRTQVPH 500
 Db 471 DEGSHDENVSTCDTNPNSHSETISH 494

RESULT 4

US-09-360-197-6
 ; Sequence 6, Application US/09360197
 ; Patent No. 6287859
 ; GENERAL INFORMATION:
 ; APPLICANT: Bassilana, Frederic
 ; APPLICANT: Lazdunski, Michel
 ; APPLICANT: Waldmann, Rainer
 ; APPLICANT: Deweille, Jan R.
 ; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
 ; TITLE OF INVENTION: Cationic Channels, Their Cloning and Applications
 ; FILE REFERENCE: 989.6706P
 ; CURRENT APPLICATION NUMBER: US/09/360,197
 ; CURRENT FILING DATE: 1997-07-23
 ; PRIOR FILING DATE: 1998-08-05
 ; PRIOR APPLICATION NUMBER: 60/095,408
 ; PRIOR FILING DATE: 1998-08-05
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 6
 ; LENGTH: 512
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-360-197-6

Query Match 47.9%; Score 1365; DB 3; Length 512;
 Best Local Similarity 50.6%; Pred. No. 3.1e-127;
 Matches 255; Conservative 83; Mismatches 140; Indels 26; Gaps 5;
 Qy 7 PEARQPSDIRVFASNCMHGLGHVFGSGLSLRGMWAAVLSVATFYQVAERVY 66
 Db 7 PSEGLQPSSTIQIFANTSTLGHRTHTFVYGLPTIRVLVAVFVGLLVESSERSY 66
 Qy 67 YRFHHCTALDERESHRLVFPATLCNINPLRSRLTENDLHWAGSALLGLD-----PAE 121
 Db 67 YFSYQVHTKYDEVVAVASLFPATLCNINLGFPSRLTNDLHWAGSALLGLD-----PAE 126
 Qy 122 HAA---FLRALGRPPAPPMPSPFTFMAQLYARAGHSLLDMLDCRFRGQCPGPNFTT 178
 Db 127 HLADPSVLEALROKANFKYKPKX-QFSMLEFLHRVGHDLKDWMLYCKFGQECGHQDFTT 185
 Qy 179 IFRMGKCYTFNSGADGAELTTTRGGMNGLDIMLDVQOEYLPVWRDNEETPEVGIR 238
 Db 186 VFTKYGCVNFNGEDGKPLITTVKGTGNGLEIMLDIQDQBYLPIWGETEBTTEAGVK 245
 Qy 239 VQIHSQEPPIIDOLGLGVSPGYQTVFVSCQQOQLSFLPPWGDGSSASLNPNYBEPSPD 298
 Db 246 VQIHSQEPPIIDOLGLGVSPGYQTVFVSCQQOQLSFLPPWGDGSSASLNPNYBEPSPD 298

Qy 299 LGSPSPSPPYTLMGCRACETRYVARKCGRMVMPGDPVFCSPQOYKNCAPDAI 358
 Db 299 -----FPVYSITACRIDCETRYIVENCNCRVMHMPGDAPFCTPEQKKECAPALGL 350
 Qy 359 LRKDS--CACPNPCASTRYAKELSMVRIPSRRAARFLARKLNRSAYIAENVLADIEFE 416
 Db 351 AEKDSNYCLCETPCNITRYNKELSMVKIPSKTSYAKLEKFNKSEKYSINILVDIEFE 410
 Qy 417 ALMYETVEQKAYEMSELIDIGGOMGLFAGSLTILILEIDYLCVFRDKVLGYFWMRQ 476
 Db 411 ALMYETVEQKAYEVAALLDGGOMGLFAGSLTILILEIDYLCVFRDKVLGYFWMRQ 470
 Qy 477 HSQRHSSTNLQGLGSHRTQVPH 500
 Db 471 DEGSHDENVSTCDTNPNSHSETISH 494

RESULT 5

US-09-360-197-8
 ; Sequence 8, Application US/09360197
 ; Patent No. 6287859
 ; GENERAL INFORMATION:
 ; APPLICANT: Bassilana, Frederic
 ; APPLICANT: Lazdunski, Michel
 ; APPLICANT: Waldmann, Rainer
 ; APPLICANT: Deweille, Jan R.
 ; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
 ; TITLE OF INVENTION: Cationic Channels, Their Cloning and Applications
 ; FILE REFERENCE: 989.6706P
 ; CURRENT APPLICATION NUMBER: US/09/360,197
 ; CURRENT FILING DATE: 1997-07-23
 ; PRIOR FILING DATE: 1998-08-05
 ; PRIOR APPLICATION NUMBER: 60/095,408
 ; PRIOR FILING DATE: 1998-08-05
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 8
 ; LENGTH: 559
 ; TYPE: PRT
 ; ORGANISM: rattus sp.
 US-09-360-197-8

Query Match 46.9%; Score 1337; DB 3; Length 559;
 Best Local Similarity 49.8%; Pred. No. 2.2e-124;
 Matches 256; Conservative 82; Mismatches 142; Indels 34; Gaps 7;
 Qy 1 MKPTSGPEEARQPSDIRVFASNCMHGLGHVFGSGLSLRGMWAAVLSVATFYQV 60
 Db 47 MEAGSELDEGDDSPDLVAFANSCTFHGASHVFEVGGPGRQALWAVAFVIALGALCQV 106
 Qy 61 AERVYRFEFHQTALDERESHRLVFPATLCNINPLRSRLTENDLHWAGSALLGLDPA 120
 Db 107 GDRVAVYLSYPHTVULDEVAATTELVPATVFCNTNAVELSQLSPDLLYL-APMLGDES 165
 Qy 121 EHAALFRLALGRPPAPPMPSPFTFMAQLYARAGHSLLDMLDCRFRGQCPGPNFTTIF 180
 Db 166 DDGQVFLA---PPGPEAFSGEP-FNLHRYNRSCHRELDMLLYCYSCGCGPHNFVVF 221
 Qy 181 TRMGKCYTFNSGADGAELTTTRGGMNGLDIMLDVQOEYLPVWRDNEETPEVGIRVQ 240
 Db 222 TRYGKCYTFNSQDGRPLKTKMGOTGNGLEIMLDIQDQBYLPIWGETETSPFAGIKVQ 281
 Qy 241 IHSQEBPPIIDOLGLGVSPGYQTVFVSCQQOQLSFLPPWGDGSSASLNPNYBEPSPDPLG 300
 Db 282 IHSQEBPPIIDOLGLGVSPGYQTVFVSCQQOQLSFLPPWGDGSSASLNPNYBEPSPDPLG 332
 Qy 301 SPSPSPSPPYTLMGCRACETRYVARKCGRMVMPGDPVFCSPQOYKNCAPDAI 360
 Db 333 -----FDSYSTACRIDCETRYIVENCNCRVMHMPGDAPFCTPEQKKECAPALDPLVE 386
 Qy 361 KDS--CACPNPCASTRYAKELSMVRIPSRRAARFLARKLNRSAYIAENVLADIEFEAL 418

Db 387 KQOEYCVCEMPCNLTRYKELSMVKIPSKASAKYLAKKNFKSQYIGENILVLDIFFEVL 446
 QY 419 NYETVEOKKAYEMSELLDGGOMGLFISGLSLTILEILDYLCVPRDKVLGYFWRQHS 478
 Db 447 NYETIEOKKAYEAGLGLDGGOMGLFISGLTILEILDYLCVPRDKVLGYFWRQHS 502
 QY 479 QHSSTNLLQEGLSHRTQVPHLSLGRPRPTPPC 512
 Db 503 QKEAKRSSADKGA-----LSLDDVKRHNPC 528

RESULT 6
 US-09-360-197-2
 ; Sequence 2, Application US/09360197
 ; Patent No. 6287859
 ; GENERAL INFORMATION:
 ; APPLICANT: Bassilana, Frederic
 ; APPLICANT: Lazdunski, Michel
 ; APPLICANT: Waldmann, Rainer
 ; APPLICANT: Deweille, Jan R.
 ; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
 ; TITLE OF INVENTION: Cationic Channels, Their Cloning and Applications
 ; FILE REFERENCE: 989.6706P
 ; CURRENT APPLICATION NUMBER: US/09/360,197
 ; CURRENT FILING DATE: 1997-07-23
 ; PRIOR FILING DATE: 1998-08-05
 ; PRIOR APPLICATION NUMBER: 60/095,408
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: Patent in Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 526
 ; TYPE: PRT
 ; ORGANISM: rattus sp.
 US-09-360-197-2

Query Match 46.6%; Score 1329; DB 3; Length 526;
 Best Local Similarity 49.5%; Pred. No. 1.3e-123;
 Matches 257; Conservative 79; Mismatches 127; Indels 56; Gaps 8;

QY 13 QPSDIRVFASNCMHGLGHVFGFSGSLRGMMAAVVLSVATFLYQVAERVYRFFHH 72
 Db 14 QPVSQAFASSTLHGAHIFSYERLSKRALWALCFGLSLAVLLCVCTERVQYFYCYHH 73
 QY 73 QVALDERSHRLVFPVATLNCINPLRRSLTPNDLHWAGS--ALLG----- 116
 Db 74 VTKLDEVAASQTLFPVATLNCINLNEFRFSQVSKNDLYHAGELLALLNNRYEIPDTQMADEK 133
 QY 117 -LDPAEHAFLRALGRPPAPPGFMPSPFTFDMQAQYARAGHSLDDMLDCRFRGOCPCPEN 175
 Db 134 QLEILQDKANFRS-----FKPKP-FNMRFFYDRAGHDIRDMLLSCHFRGACSAED 193
 QY 176 FTITFRMGKCYTFNSGADGABELTTTRGCMGNGLDMLDVQOEYILPVWRDNEETPFV 235
 Db 184 FKWVTRYGKCYTFNSGQDGRPLTKMGKTGNGLEIMLDIQOEYILPVWAGTDETSFEA 243
 QY 236 GIRVQHSQEBPIIDQLGLGVSPGYQTFVSCQQOQLSFLPPWGDSCSSASLNPNVEPEP 295
 Db 244 GIKVQHSQDEPPFIDQLGFGVAGFQTFVSCQQRLLIYLPSPMGTCNAVIMDSDF---- 299
 QY 296 SDPLGSPSPSPPYTLMGCRACETRYVARKCCRCRMVMPGDVPVCSPOQYKNCARPAI 355
 Db 300 -----FDSYSITACRIDCETRYLVENCNCRMVMPGDVPYCTPBOYKECADPAL 348
 QY 356 DAILRKDS--CACPNPCASTRYAKELSMVRIPSAARAFIARKLNRSAYIAENVLADI 413
 Db 349 DFLVEKQOEYCVCEMPCNLTRYKELSMVKIPSKASAKYLAKKNFKSQYIGENILVLDI 408
 QY 414 FFEALNVTETVEOKKAYEMSELLDGGOMGLFISGLSLTILEILDYLCVPRDKVLGYFW 473
 Db 409 FFEVLNVTETVEOKKAYEAGLGLDGGOMGLFISGLTILEILDYLCVPRDKVLGYFW 464

QY 474 NRHSQRSHSTNLLQEGLSHRTQVPHLSLGRPRPTPPC 512
 Db 465 RRGCKQKEAKRSSADKGA-----LSLDDVKRHNPC 495

RESULT 7
 US-09-360-197-4
 ; Sequence 4, Application US/09360197
 ; Patent No. 6287859
 ; GENERAL INFORMATION:
 ; APPLICANT: Bassilana, Frederic
 ; APPLICANT: Lazdunski, Michel
 ; APPLICANT: Waldmann, Rainer
 ; APPLICANT: Deweille, Jan R.
 ; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
 ; TITLE OF INVENTION: Cationic Channels, Their Cloning and Applications
 ; FILE REFERENCE: 989.6706P
 ; CURRENT APPLICATION NUMBER: US/09/360,197
 ; CURRENT FILING DATE: 1997-07-23
 ; PRIOR FILING DATE: 1998-08-05
 ; PRIOR APPLICATION NUMBER: 60/095,408
 ; PRIOR FILING DATE: 1998-08-05
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: Patent in Ver. 2.1
 ; SEQ ID NO 4
 ; LENGTH: 514
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-360-197-4

Query Match 46.3%; Score 1319; DB 3; Length 514;
 Best Local Similarity 49.2%; Pred. No. 1.2e-122;
 Matches 255; Conservative 80; Mismatches 129; Indels 54; Gaps 8;

QY 14 PSDIRVFASNCMHGLGHVFGFSGSLRGMMAAVVLSVATFLYQVAERVYRFFHHQ 73
 Db 1 PVSQAFASSTLHGAHIFSYERLSKRALWALCFGLSLAVLLCVCTERVQYFYHYHV 60
 QY 74 TALDERSHRLVFPVATLNCINPLRRSLTPNDLHWAGS--ALLG----- 116
 Db 61 TKLDEVAASQTLFPVATLNCINLNEFRFSQVSKNDLYHAGELLALLNNRYEIPDTQMADEKQ 120
 QY 117 LDPAEHAFLRALGRPPAPPGFMPSPFTFDMQAQYARAGHSLDDMLDCRFRGOCPCPENF 176
 Db 121 LEILOQDKANFRS-----FKPKP-FNMRFFYDRAGHDIRDMLLSCHFRGVCSAEDF 170
 QY 177 TTITFRMGKCYTFNSGADGABELTTTRGCMGNGLDMLDVQOEYILPVWRDNEETPFV 236
 Db 171 KVVFTRYGKCYTFNSGRNGRPLTKMGKTGNGLEIMLDIQOEYILPVWAGTDETSFEAG 230
 QY 237 IRVQHSQEBPIIDQLGLGVSPGYQTFVSCQQOQLSFLPPWGDSCSSASLNPNVEPEPS 296
 Db 231 IRVQHSQDEPPFIDQLGFGVAGFQTFVACQEQRLIYLPSPMGTCNAVIMDSDFDSD 290
 QY 297 DPLGSPSPSPPYTLMGCRACETRYVARKCCRCRMVMPGDVPVCSPOQYKNCARPAID 356
 Db 291 -----YSITACRIDCETRYLVENCNCRMVMPGDVPYCTPBOYKECADPALD 337
 QY 357 AILRKDS--CACPNPCASTRYAKELSMVRIPSAARAFIARKLNRSAYIAENVLADI 414
 Db 338 FLVEKQOEYCVCEMPCNLTRYKELSMVKIPSKASAKYLAKKNFKSQYIGENILVLDIF 397
 QY 415 FFEALNVTETVEOKKAYEMSELLDGGOMGLFISGLSLTILEILDYLCVPRDKVLGYFW 474
 Db 398 FFEVLNVTETVEOKKAYEAGLGLDGGOMGLFISGLTILEILDYLCVPRDKVLGYFW 453
 QY 475 RQHSQRSHSTNLLQEGLSHRTQVPHLSLGRPRPTPPC 512
 Db 454 RRGCKQKEAKRSSADKGA-----LSLDDVKRHNPC 483

RESULT 8

```
US-09-360-197-12
; Sequence 12, Application US/09360197
; Patent No. 6287859
; GENERAL INFORMATION:
; APPLICANT: Basilana, Frederic
; APPLICANT: Lazdunski, Michel
; APPLICANT: Waldmann, Rainer
; APPLICANT: Deweille, Jan K.
; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
; TITLE OF INVENTION: Cationic Channels, Their Cloning and Applications
; FILE REFERENCE: 989.6706P
; CURRENT APPLICATION NUMBER: US/09/360,197
; CURRENT FILING DATE: 1997-07-23
; PRIOR APPLICATION NUMBER: 09/129,758
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/095,408
; PRIOR FILING DATE: 1998-08-05
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 563
; TYPE: PRT
; ORGANISM: rattus sp.
US-09-360-197-12

Query Match 43.8%; Score 1249.5; DB 3; Length 563;
Best Local Similarity 47.5%; Pred. No. 1.2e-115;
Matches 245; Conservative 79; Mismatches 151; Indels 41; Gaps 8;

QY 6 GPEARR-QPSDIRVFASNCMSGLGHV-----FGPSLSLRGMAAAVLSVATFLVQV 60
DQ 50 GPGVARGRFS-----LSRTKLHGLRHMCAGRTAAGSFFORRALWLAFTSLGLLWS 104
QY 61 AERYVYREFFHQTALDERESHRLVFPVATVLCNINPLRSRLTPNDLHWAGSALLGLDPA 120
DQ 105 SNRLLYLWSPSHFVRHVSRLQFPFPAVTCNNPLRPERLSKGLYVAGHWGLLEN 164
QY 121 EHA-AFIRALCRPPAPG-----FMPSPFTD--MAQLYARAGSLDMLDCHP 166
DQ 165 RTAEPVSELLRGDEPRQRWRKLADEPLFLPRHFEGISAAPMDRLHQLEDMLLSCKY 224
QY 167 RGQCGPENFTTIFTRMGKYTFNSGADGAELTTTRGGMNGLDIMLDVQOEYLPVNR 226
DQ 225 RGLCGPHNFSSVTKYKCYMFNSGEDKPLITTVKGGTNGLEIMLDIQODEYLPWG 284
QY 227 DNESTPEVGIRVOIHQOEPPIDQLGVSPGYQTFVSCQQQQLSFLPPWGCSSAS 286
DQ 285 ETEETPEAGVKVQIHQSCSEPPFIQELGFGVAPGPTFVATQQRLLYLPWGCSSSE 344
QY 287 LNPVPEPSPDLGSPSPSPPYTLMGCRACETRYVARKCGCRVMVMPGVPCVSPQ 346
DQ 345 MGLDF-----FPVYSITACRIDCETRYVENCNCRVMVMPGDAFCTPEQ 389
QY 347 YKCAHFAIDAILRKDS--CACNPPCASTRYAKELSMWRIPSPAAARFLARKNRSAYI 404
DQ 390 HKCAEAFALGLAEKDSNYLCRTPCNLTYNKLKSNVKSPTSATKLEKPNKSEKI 449
QY 405 AENVLADIFFEALNYETVEQKAYEMSELLGIGGOMGLFICASLTILEILDYLCVF 464
DQ 450 SENILVLDIFFEALNYETIEQKAYEVAALLGIGGOMGLFICASLTILELFDYIELI 509
QY 465 RDKVLGFWNRQHSQRSSNTLQEGLSGSHRTQUPH 500
DQ 510 KEKLLDLGKEEGSHDENNSTCDTNPNSHSETISH 545

RESULT 9
US-09-518-959-8
; Sequence 8, Application US/09518959
; Patent No. 6548270
; GENERAL INFORMATION:
; APPLICANT: Dublin, Adrienne E
; APPLICANT: Erlander, Mark G
US-09-518-959-9
; Sequence 9, Application US/09518959
; Patent No. 6548270
; GENERAL INFORMATION:
; APPLICANT: Dublin, Adrienne E
; APPLICANT: Erlander, Mark G
; APPLICANT: Huvar, Rene
; APPLICANT: Pyati, Jayashree
; TITLE OF INVENTION: DNA encoding human acid-sensing ion
; FILE REFERENCE: ORT-1197
; CURRENT APPLICATION NUMBER: US/09/518,959
; CURRENT FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
```

```
; APPLICANT: Huvar, Rene
; APPLICANT: Pyati, Jayashree
; TITLE OF INVENTION: DNA encoding human acid-sensing ion
; FILE REFERENCE: channel BNaC4 (ASIC4)
; CURRENT APPLICATION NUMBER: US/09/518,959
; CURRENT FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 539
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-518-959-3

Query Match 41.4%; Score 1180; DB 4; Length 539;
Best Local Similarity 49.8%; Pred. No. 9.4e-109;
Matches 247; Conservative 58; Mismatches 161; Indels 30; Gaps 9;

QY 14 PSDIRVFASNCMSHGLGHVFGPSLSLRGMAAAVLSVATFLVQVAVRYVREFHHQ 73
DQ 39 PRDLATFASTSLHGLGRACGPGPHGLRRLTALALLTSLAAFLYQAAGLAEGLTRPHL 98
QY 74 TALDERESHRLV-FPVTLCNINPLRSRLTPNDL-HWAGSALLGLDPAEHAFLRGLR 131
DQ 99 VAMPDPAAPAVAGFPVATVLCNINRFRHSALSADIFHLAN--LTGLPKDRDGHRAAGLR 156
QY 132 PRAPPGFMPSPFTDMAQLYARAGHSLDDMLDCRFGQPCGPENFTTIFTRMGKYTFNS 191
DQ 157 YPEP-----DMVDILNRTHGQLADMLKSCNFSGHCSASNSFVTRYGKCYTEN- 206
QY 192 GAGCAELTTTRGGMNGLDIMLDVQOEYLPVNRDNBETPEVGIRVOIHQOEPPID 251
DQ 207 -ADPRSLPSRAGMGSGLEIMLDIQOEYLPVNRDNBETPEVGIRVOIHQOEPPYIH 265
QY 252 QLGLGVSPGYQTFVSCQQQQLSFLPPWGCSSASINPNYEPEDPLGSPSPSPPYT 311
DQ 266 QLGFVSPGYQTFVSCQEQLTYLPQPNCRAS-----ELREPELQYSAYS 314
QY 312 LMGCRACETRYVARKCGCRVMVMPGVPCVSPQYKCAHFAIDAI--LRKDSACANP 369
DQ 315 VSACRLRCEKEAVLQRCRVMVMPGNETICPPNIYIECADHTLDSLGGGEGPCFCPTP 374
QY 370 CASTRYAKELSMWRIPSPAAARFLARKNRSAYIAENVLADIFFEALNYETVEQKAY 429
DQ 375 CNTRYKELSMWRIPNRSARYLARKYRNNTYIRENFLVDVFEALTSEMQRAY 434
QY 430 EMBELGIDGQMLFPGASLTILEILDYLCVEFRDKVLGVFWNRQHSQRSSNTLQOE 489
DQ 435 GLSALLDLGGQMLFPGASLTILEILDYIYEVSWDR-LKRVWRRPKTPLRTSTGGIST 493
QY 490 -GLGSHRTQVPHLSLG 504
DQ 494 LGLQELKEQSPCPSLG 509

RESULT 10
US-09-518-959-9
; Sequence 9, Application US/09518959
; Patent No. 6548270
; GENERAL INFORMATION:
; APPLICANT: Dublin, Adrienne E
; APPLICANT: Erlander, Mark G
; APPLICANT: Huvar, Rene
; APPLICANT: Pyati, Jayashree
; TITLE OF INVENTION: DNA encoding human acid-sensing ion
; FILE REFERENCE: ORT-1197
; CURRENT APPLICATION NUMBER: US/09/518,959
; CURRENT FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
```



```
; LENGTH: 539
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-518-959-9

Query Match      41.2%; Score 1174; DB 4; Length 539;
Best Local Similarity 45.6%; Pred. No. 3.7e-108;
Matches 246; Conservative 58; Mismatches 162; Indels 30; Gaps 9;

QY 14 PSDIRVFNCSMHGLGHVFGPQSLRRGMWAAVLSVATFLYQVAERVRYRPHHQ 73
Db 39 PRDIATFASSTLHGLGRACGPHGLRLTLWALITSLAAFLYQAAGLARGYLTRPHL 98
QY 74 TALDERESHRLV-FPAVTLNINPLRRSLTPNDL-HWAGSALLGLDPAHAFLPALGR 131
Db 99 VAMDPAPAPVAGFPVATLNCINFRHSALSADADIFELAN-LTGPPKDRDCHRAAGLR 156
QY 132 PPAPPGFMPSTFDMQAQYARAGHSDDMLDCRFQPCGPGENFTTIFTRMGKCYTFNS 191
Db 157 YPEP-----DMVDILNRTGHQADMLKSCNFSCHCSASNFVSVVYTRYGKYTEN- 206
QY 192 GADGAELLATTRCGMGNGLDMLDVOQBEYLPVWRDNEETPREVGIRVOIHQOEPPHID 251
Db 207 -ADPRSSLPSRAGMGSGLLEIMDIOQBEYLPWRNTSTFAGIRVOIHQOEPPHIIH 265
QY 252 QLGIVSPGYQTVSCQQOQLSELPPPWGDCSSASLNPNYEPEPSDPLGSPSPSPPYT 311
Db 266 QLGFGVSPGFQTFVSCQEQRLTYLPQPGNCRAES-----ELREPELQGSAYS 314
QY 312 LMGCRILACETRYVARKCGRWYMPGDPVPCSPQYKCAHPAIDAI--LRKDSACACNP 369
Db 315 VSACLRCKEAVLQRCHECHRWMPNETICPNYIECADHTLSLGGPGPGCFCTP 374
QY 370 CASTRYAKELSMVRIPSRARAAFLARKLNRSAYIAENVIALDIFFEALNVEYVQKAY 429
Db 375 CNLTRYKEISMVRIENRGSARYLARKYNENYIRENFVLVDVFEALTSEMEQRAY 434
QY* 430 ENESELDGIGGQGLFISALITLILDYLCVFRDKVLGVFWNRQHSQHSSTNLLOE 489
Db 435 GUSALLGDLGGQGLFISALITLILDYLYIYVSWDR-LKRWRRRPTLRTSTGGIST 493
QY 490 -GLGSHRTQVPHLSLG 504
Db 494 LGLQELKEQSPCPSRG 503

RESULT 11
US-09-360-197-15
; Sequence 15, Application US/09360197
; Patent No. 6287859
; GENERAL INFORMATION:
; APPLICANT: Bassilana, Frederic
; APPLICANT: Lazdunski, Michel
; APPLICANT: Waldmann, Rainer
; APPLICANT: Deweille, Jan R.
; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
; FILE REFERENCE: 999.6706P
; CURRENT APPLICATION NUMBER: US/09/360,197
; CURRENT FILING DATE: 1997-07-23
; PRIOR APPLICATION NUMBER: 09/129,758
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/095,408
; PRIOR FILING DATE: 1998-08-05
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 15
; LENGTH: 625
; TYPE: PRT
; ORGANISM: Helix aspersa
US-09-360-197-15

Query Match      14.7%; Score 419; DB 3; Length 625;

; LENGTH: 539
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-518-959-9

Query Match      41.2%; Score 1174; DB 4; Length 539;
Best Local Similarity 45.6%; Pred. No. 3.7e-108;
Matches 246; Conservative 58; Mismatches 162; Indels 30; Gaps 9;

QY 17 IRVFASNCSEHGLGHVFGPQSLRRGMWAAVLSVATFLYQVAERVRYRPHHQ 76
Db 43 IAEGLSESNAHGLAKIVTSRD-TKRKVINALLVIAGTAATLQLSLVRKYLQFQVVELS 101
QY 77 DERESHRLVFPVATLCHINP-----LRR-----SRUTPNDLHWAGSALLGLDPAHAFLRA 128
Db 102 EIKDSMPVQYPSVSCINIEPISLATIRMYFNNESSONLITWL--RFTQKRFQDSEFMS 159
QY 129 LGRPPAPGFMPSPTF--DMAQLVARAGHSDDMLDCRFQPCGPGENFTTIFT-RMGK 185
Db 160 I-----RAFVENLQDQAKLSHNLEDMHCFRENLCHVSNFSTFDDGNYFN 207
QY 186 CYTNSGADGAELLATTRCGMGNGLDMLDVOQBEYLP-----VMRDNEETPREVGIRVOI 241
Db 208 CFTFNSG---QRLQMHATGPNGLSLIFSVKDDPLPGTYGVYVFNFDNNILHSAGVRVV 263
QY 242 HSQEEPIIDQLGUGVSPGYQTVSCQQOQLSELPPPWGDCSSASLN--PNYEPEPSDPL 299
Db 264 HAPGSMESPVDHGLDIPPGYSSVGLKAILHTLPLPYGNCNDMLNGIKQYK----- 316
QY 300 GSPSPSPSPPYTLMGCRILACETRYVARKCGRWYMPGDPV-----SRAARFLARKLNSEAVIA 405
Db 317 -----YTFACILQCLCKQLIIRCGCKSSALP-EVPSYNATFCGVIKDWQENIN 365
QY 341 -----VCSPOQYKCAHPAIDAILRKD-----SCACPNPCASTR 374
Db 366 HSNEDHNQSEEDRAFIPTPYLACEEREQKN-----LNNDRTYELSCGCFQPCSETS 416
QY 375 YAKELSMVRIP-----SRAARFLARKLNSEAVIA----- 405
Db 417 YLKSUSLYWFLFYQLSAVERFFKQERQGNHFKTAYEYLEKLAHESQHLRNDSH 476
QY 406 -----ENVALDIFFEALNVEYVQKAYEMSELLDGG 440
Db 477 MDDILSKSYSLSEKEMAKEASDLIRQNMRLNLYLEDLSWVEVRLPAYGLADLPADIGG 536
QY 441 QMGLFTGASLLTLELDVLCVFRDKVLGVFWNRQ-----HSQRHS 482
Db 537 TIGLWNGISVLTIMELIELVI-----RLTGLVFNSEKGLPRGPTVNNNGSNHSQ-ST 590
QY 483 STNLLQEGLSH 494
Db 591 SQHLYNGYMDH 602

RESULT 12
US-08-376-362A-20
; Sequence 20, Application US/08376362A
; Patent No. 5693756
; GENERAL INFORMATION:
; APPLICANT: Li, Xiao-Jiang
; APPLICANT: Blackshaw, Seth
; APPLICANT: Snyder, Solomon H.
; TITLE OF INVENTION: AMILORIDE-SENSITIVE SODIUM CHANNEL AND
; TITLE OF INVENTION: METHOD OF IDENTIFYING SUBSTANCES WHICH STIMULATE OR BLOCK
; TITLE OF INVENTION: SALTY TASTE PERCEPTION
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Allegretti, LTD
; STREET: 1001 G Street, N.W., Eleventh Floor
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
```


;; TITLE OF INVENTION: DNA SEQUENCES INVOLVED IN NEURONAL
DEGENERATION, MULTICELLULAR ORGANISMS CONTAINING SAME AND USES
THEREOF

;; NUMBER OF SEQUENCES: 11

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/07/530,968

;; FILING DATE: 30-MAY-1990

;; SEQ ID NO:4:

;; LENGTH: 493

5196333-4

Query Match 12.0%; Score 342.5; DB 6; Length 493;
Best Local Similarity 27.2%; Pred. No. 2.5e-25;
Matches 106; Conservative 59; Mismatches 135; Indels 91; Gaps 14;

QY 114 LLGLDPAEHAALRALGRPPAPPGFMPSPPTFDVA-----OLYARAGHSLDD----- 159

Db 115 LQGTPTEDPNFLEAMG-----FCGMTDEVAIVTKAKENIMFANATLSMQDRERLST 166

QY 160 ----MLDCFRQPCGCPEN--FTTIFTRMGKCYTFNSGADGAELITTTTRGGMGGLDIM 213

Db 167 TKRELHKCSFNGKACDIEADEJTHIDPAFGSCFTFNH--NRTVALTSIRAGPMYGLRML 224

QY 214 LDVQOEYLPVWRDNEETPEVGIRVQIHSQEBPPIIDQLGLGVSPGYOTFVSCQQOQLS 273

Db 225 VYVNASDYM-----TTEATGVRULTIHKEDFPFDTFGYSAPTGYVSSFGRLRKMS 277

QY 274 FLPPPMGDC-----SSASLNPNYEPSPDPLGSPSPSPPPYTLGCRCLACETRYVARKC 328

Db 278 RLPAVGDVDPDKTSDYVSNVE-----YSVEGCVRSCEFQQLVLEK 320

QY 329 GCRVMPGDVFCVSPQQYKNCNCHPAIDAILRK--DS-----CACNPFCAST 373

Db 321 RC-----GDPFPVPEGARHCA--DAADPIARKCLDARNMDLGLHGSFRRCQQPCRS 372

QY 374 RYAKELSMVRIPSR-----AARFLARKLNSEAVIAENVLALDIFFEALNVEVEQKK 427

Db 373 IYSVTYSYPAKWFSLSLQIOLGSCNGTAVECNK---HYKENGAMVEVFYEQJNFEMLTSE 429

QY 428 AYEMSELLDGGQMGFLFTGASLLTLEIL 457

Db 430 AYGFVNLLADFGQLGGLWCGISFLTCCEPV 459

RESULT 15

US-07-861-458C-99

;; Sequence 99, Application US/07861458C

;; Patent No. 6232061

;; GENERAL INFORMATION:

;; APPLICANT: Marchionni, Mark Andrew

;; APPLICANT: Johnson, Carl D.

;; TITLE OF INVENTION: HOMOLOGY CLONING

;; NUMBER OF SEQUENCES: 142

;; CORRESPONDENCE ADDRESS:

;; ADDRESSEE: Fish & Richardson

;; STREET: 225 Franklin Street

;; CITY: Boston

;; STATE: Massachusetts

;; COUNTRY: U.S.A.

;; ZIP: 02110-2804

;; COMPUTER READABLE FORM:

;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

;; COMPUTER: IBM PS/2 Model 502 or 55SX

;; OPERATING SYSTEM: MS-DOS (Version 5.0)

;; SOFTWARE: WordPerfect (Version 5.1)

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/07/861,458C

;; FILING DATE: 04/01/92

;; CLASSIFICATION: 435

;; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER:

;; FILING DATE:

;; ATTORNEY/AGENT INFORMATION:

;; NAME: Clark, Paul T.
;; REGISTRATION NUMBER: 30,162
;; REFERENCE/DOCKET NUMBER: 04585/014001
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;; INFORMATION FOR SEQ ID NO: 99:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 755

;; TYPE: amino acid

;; TOPOLOGY: linear

US-07-861-458C-99

Query Match 12.0%; Score 341.5; DB 3; Length 755;
Best Local Similarity 26.9%; Pred. No. 6.1e-25;
Matches 105; Conservative 61; Mismatches 133; Indels 91; Gaps 14;

QY 114 LLGLDPAEHAALRALGRPPAPPGFMPSPPTFDVA-----OLYARAGHSLDD----- 159

Db 377 LQGTPTEDPNFLEAMG-----FCGMTDEVAIVTKAKENIMFANATLSMQDRERLST 428

QY 160 ----MLDCFRQPCGCPEN--FTTIFTRMGKCYTFNSGADGAELITTTTRGGMGGLDIM 213

Db 429 TKRELHKCSFNGKACDIEADEJTHIDPAFGSCFTFNH--NRTVALTSIRAGPMYGLRML 486

QY 214 LDVQOEYLPVWRDNEETPEVGIRVQIHSQEBPPIIDQLGLGVSPGYOTFVSCQQOQLS 273

Db 487 VYVNASDYM-----TTEATGVRULTIHKEDFPFDTFGYSAPTGYVSSFGRLRKMS 539

QY 274 FLPPPMGDC-----SSASLNPNYEPSPDPLGSPSPSPPPYTLGCRCLACETRYVARKC 328

Db 540 RLPAVGDVDPDKTSDYVSNVE-----YSVEGCVRSCEFQQLVLEK 582

QY 329 GCRVMPGDVFCVSPQQYKNCNCHPAIDAILRK--DS-----CACNPFCAST 373

Db 583 RC-----GDPFPVPEGARHCA--PA-DPVARRSLDARNMDLGLHGSFRRCQQPCRS 634

QY 374 RYAKELSMVRIPSR-----AARFLARKLNSEAVIAENVLALDIFFEALNVEVEQKK 427

Db 635 IYSVTYSYPAKWFSLSLQIOLGSCNGTAVECNK---HYKENGAMVEVFYEQJNFEMLTSE 691

QY 428 AYEMSELLDGGQMGFLFTGASLLTLEIL 457

Db 692 AYGFVNLLADFGQLGGLWCGISFLTCCEPV 721

Search completed: August 25, 2004, 13:01:25

Job time : 36 secs